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# Lifting Reentry Communications

Volume III: Plane Wave Attenuation Tables

FEBRUARY 1967

Prepared by REENTRY AND PLASMA-ELECTROMAGNETICS DEPARTMENT

Plasma Research Laboratory

Laboratories Division

Laboratory Operations

AEROSPACE CORPORATION

Prepared for BALLISTIC SYSTEMS AND SPACE SYSTEMS DIVISIONS

AIR FORCE SYSTEMS COMMAND

LOS ANGELES AIR FORCE STATION

Los Angeles, California

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SSD-TR-66-73, Vol. III

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LIFTING REENTRY COMMUNICATIONS  
VOLUME III: PLANE WAVE ATTENUATION TABLES

Prepared by  
REENTRY AND PLASMA-ELECTROMAGNETICS DEPARTMENT  
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## FOREWORD

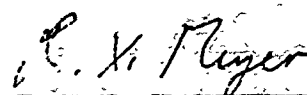
This report is published by the Aerospace Corporation, El Segundo, California, under Air Force Contract Nos. A1 04(695)-669 and AF 04(695)-1001. The report was authored by the following members of the ad hoc Working Group on Reentry Communications:

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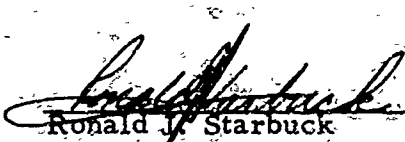
This working group was organized by Richard H. Huddleston, Head, Reentry and Plasma-Electromagnetics Department, Plasma Research Laboratory in anticipation of the requirements of the Space Systems Division. The authors gratefully acknowledge Dr. Huddleston's many suggestions and his constructive criticism.

This report, which documents research carried out from 1 July 1965 through 1 February 1967, was submitted on 22 March 1967 to Captain Ronald J. Starbuck, SSTRT, for review and approval.

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Publication of this report does not constitute Air Force approval of the report's findings or conclusions. It is published only for the exchange and stimulation of ideas.

  
Ronald J. Starbuck  
Captain, USAF  
Chief, Space Environment and  
Electronics Branch

## ABSTRACT

The reentry signal attenuation calculations presented in this volume are a part of the lifting reentry communication system study described in Volumes I and II. Extensive plane wave attenuation tables are given for the following plasma conditions:

$$0.8 \leq \omega_p / \omega \leq 800$$

$$10^{-4} \leq d / \lambda_0 \leq 3.5$$

$$10^{-4} \leq 2\pi c v / \omega_p^2 d \leq 1.0$$

A brief review of the plane wave analysis is also included. Plasma antenna effects and the effects of inhomogeneities in the plasma sheath are discussed.

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CONTENTS

FOREWORD . . . . .	ii
ABSTRACT . . . . .	iii
NOMENCLATURE . . . . .	vii
I. INTRODUCTION . . . . .	1
II. PLANE WAVE ANALYSIS . . . . .	3
A. PLASMA ATTENUATION . . . . .	3
B. PLASMA-ANTENNA INTERACTIONS . . . . .	13
C. INHOMOGENEOUS PLASMA PROPERTIES . . . . .	19
REFERENCES . . . . .	25
APPENDIX: PLANE WAVE ATTENUATION TABLES . . . . .	A-1

## FIGURES

1.	Plasma Slab Geometry . . . . .	4
2.	Plasma Slab Attenuation Contours ( $\nu/\omega_p = 0$ ) . . . . .	7
3.	Plasma Slab Attenuation Contours ( $\nu/\omega_p = 0.1$ ) . . . . .	3
4.	Plasma Slab Attenuation Contours ( $\nu/\omega_p = 1.0$ ) . . . . .	9
5.	Dependence of Plasma Slab Attenuation on Electron Density and Collision Frequency ( $d/\lambda_0 = 0.5$ ) . . . . .	10
6.	Dependence of Plasma Slab Attenuation on Electron Density and Collision Frequency ( $d/\lambda_0 = 1.0$ ) . . . . .	11
7.	Slot Antenna Geometry . . . . .	14
8.	Inhomogeneous Plasma Slab Attenuation . . . . .	21
9.	Plasma Characteristics Used in Inhomogeneous Attenuation Computation . . . . .	22



## NOMENCLATURE

$a$	aperture width
$c$	velocity of light
$d$	plasma slab thickness
$E^{\pm}$	electric field amplitudes in plasma slab
$E_{ap}$	complex amplitude of electric field across aperture
$E_o$	electric field amplitude in feed waveguide
$g(\theta)$	gain function
$G(\theta)$	normalized gain function
$k_o$	free space wavenumber
$k_p$	plasma wavenumber
$k_{oz}(k_{pz})$	$z$ component of $k_o(k_p)$
$\hat{r}_o(\hat{r}_p)$	complex voltage reflection coefficient for aperture radiating into free space (plasma environment)
$t$	transmission coefficient
$\bar{u}_x(\bar{u}_y)$	unit vector in $x$ (or $y$ ) direction
$V$	$\nu/\omega$ , collisional parameters
$W$	$\omega_p/\omega$ , normalized plasma frequency
$Y_o(Y_g)$	admittance of free space (feed waveguide)
$Z_s$	equivalent plasma surface impedance
$Z_o$	characteristic impedance of free surface

$\alpha_p$	plasma attenuation constant
$\gamma$	equivalent angle of incidence
$\epsilon_0$	permittivity of free space
$\epsilon_p$	complex dielectric constant of plasma region, Eq. (1)
$\theta$	angle of observation with respect to z axis
$\lambda_0$	free space wavelength
$\mu_0$	permeability of free space
$\nu$	equivalent collision frequency
$\omega$	radian signal frequency
$\omega_p$	radian plasma frequency

#### Superscripts

o	without plasma sheath
p	with plasma sheath
i	incident
r	reflected
t	transmitted

## I. INTRODUCTION

This is the last of three volumes describing the analysis of lifting reentry communication systems. This volume is concerned with the electromagnetic analysis of plane wave transmission through a plasma slab. The results of attenuation computations, performed on a digital computer, are presented in tabular format in the appendix to this volume. These tables were used extensively in the estimates of reentry signal attenuation which appear in Volumes I and II. However, since the plasma parameters appearing in the tables were varied over a wide range, the tables should be useful for many other current reentry applications as well as for lifting reentry.

A plane-wave homogeneous-plasma-slab model is assumed for the attenuation computations. This model was chosen because it is the simplest one which incorporates all the necessary ingredients for attenuation estimates without including the details confronting an actual reentry flight configuration. The validity and limitations of this plane wave approximation are discussed briefly in later sections of this report.

## II. PLANE WAVE ANALYSIS

### A. PLASMA ATTENUATION

This section contains a brief review of the plane wave analysis and a discussion of the plasma slab attenuation tables. A more detailed discussion of the plane wave transmission through a plasma slab for an arbitrary angle of incidence is given in Ref. 1.

The plasma slab geometry is depicted in Fig. 1. The plasma region is sharply bounded by free space on either side and is assumed to be homogeneous, isotropic, and slightly ionized. Collisional effects are assumed to be due to electron-neutral collisions and to be velocity independent. The plasma region is thus characterized by a complex dielectric constant  $\epsilon_p$ , which is equal to (Ref. 2)

$$\epsilon_p = \epsilon_0 \left( 1 - \frac{W^2}{1 - jV} \right) \quad (1)$$

with  $W = \omega_p / \omega$  and  $V = \nu / \omega$ , where  $\epsilon_0$  is the permittivity of free space,  $\omega_p$  is the radian plasma frequency,  $\omega$  is the radian signal frequency, and  $\nu$  is the equivalent collision frequency.

The normal incident plane wave is assumed to impinge upon the plasma slab from the left,  $z = -\infty$ , and to have an  $e^{+j\omega t}$  time dependence. The electromagnetic fields in the three regions can be written in the form (Ref. 1)

$$\begin{aligned} \bar{E}_1 &= \bar{u}_x \left[ E^i e^{-jk_0 z} + E^r e^{+jk_0 z} \right] \\ \bar{E}_2 &= \bar{u}_x \left[ E^- e^{-jk_p z} + E^+ e^{+jk_p z} \right] \end{aligned}$$

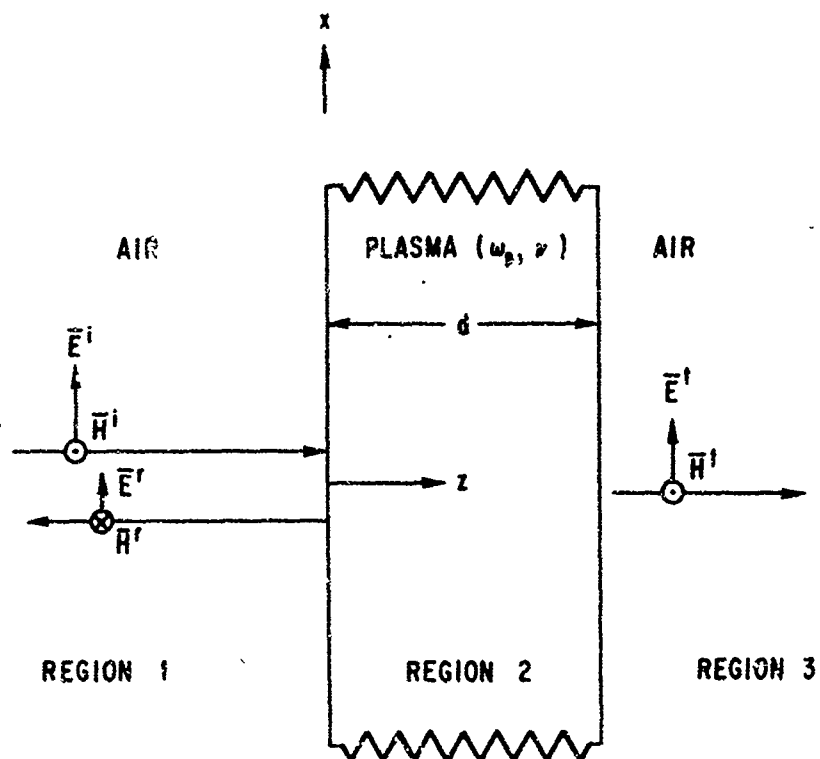


Fig. 1. Plasma Slab Geometry

$$\bar{E}_3 = \bar{u}_x E^t e^{-jk_0 z}$$

$$\bar{H}_1 = \bar{u}_y (k_0 / \omega \mu_0) [E^i e^{-jk_0 z} - E^r e^{+jk_0 z}]$$

$$\bar{H}_2 = \bar{u}_y (k_p / \omega \mu_0) [E^- e^{-jk_p z} - E^+ e^{+jk_p z}]$$

$$\bar{H}_3 = \bar{u}_y (k_0 / \omega \mu_0) E^t e^{-jk_0 z}$$

where  $k_0$  is the free space wavenumber,  $k_p$  is the plasma wavenumber,  $\mu_0$  is the permeability of free space,  $\bar{u}_x$  is the unit vector in the x direction, and  $\bar{u}_y$  is the unit vector in the y direction.

The subscripts 1, 2 and 3 designate regions 1, 2, and 3 in Fig. 1.

The fields in region 1 represent the incident and reflected plane waves, the fields in region 3 comprise the transmitted plane wave, and the fields in region 2 correspond to the standing and traveling wave components in the plasma slab. The transmission coefficient  $t$  is defined as the ratio  $E^t/E^i$ . It is obtained by applying the appropriate boundary conditions at the two plasma-air interfaces, which results in

$$t = \frac{E^t}{E^i} = \frac{e^{+jk_0 d}}{\cos k_p d + (j/2) (k_0/k_p + k_p/k_0) \sin k_p d} \quad (2)$$

where  $d$  is the slab thickness and

$$k_0 = \omega (\mu_0 \epsilon_0)^{1/2}$$

$$k_p = k_0 \left( 1 - \frac{W^2}{1-jV} \right)^{1/2}$$

The 7094 computer was programmed by the Aerospace Computation and Data Processing Center to calculate the magnitude of the complex transmission coefficient given in Eq. (2) and to display the computer output in tabular form as a function of the various plasma parameters. The Appendix contains the computations for plasma conditions commonly encountered during reentry. The normalized plasma frequency  $W$  and the normalized plasma thickness  $d/\lambda_0$  were varied from 0.8 to 800 and  $10^{-4}$  to 3.5, respectively. Each page of the computer printout tabulates the plane wave attenuation through a plasma slab in dB for a given set of values of  $d/\lambda_0$  and  $\omega_p/\omega$  and a fixed value of the parameter  $\nu\lambda_0/W^2d$ . The printed parameters  $D/LAM.0$  and  $VLAM.0/W**2D$ , which appear on the printout sheets, denote the plasma parameters  $d/\lambda_0$  and  $\nu\lambda_0/W^2d$ , respectively.

Some of the computer results are also presented graphically in Figs. 2 through 6. Figure 2 represents the plane wave plasma attenuation as a function of  $\omega_p/\omega$  and  $d/\lambda_0$  when the collisional parameter  $\nu/\omega_p$  is assumed to be zero. The printed numbers associated with each attenuation contour correspond to the attenuation level in dB. The dashed lines represent paths of constant plasma conditions ( $\omega_p d/2\pi c = \text{const}$ ,  $\nu/\omega_p = \text{const}$ ) and yield the frequency dependence of the plane wave attenuation. Moving to the left on one of the constant plasma contours is equivalent to increasing the signal frequency. For a collisionless plasma, the plane wave attenuation decreases with increasing frequency, and increases with increasing slab thickness or plasma frequency.

Figures 3 and 4 display the attenuation contours with the collisional parameter  $\nu/\omega_p$  equal to 0.1 and 1.0, respectively. The most significant difference between the results for lossy and lossless plasmas is an alteration in the frequency dependence.

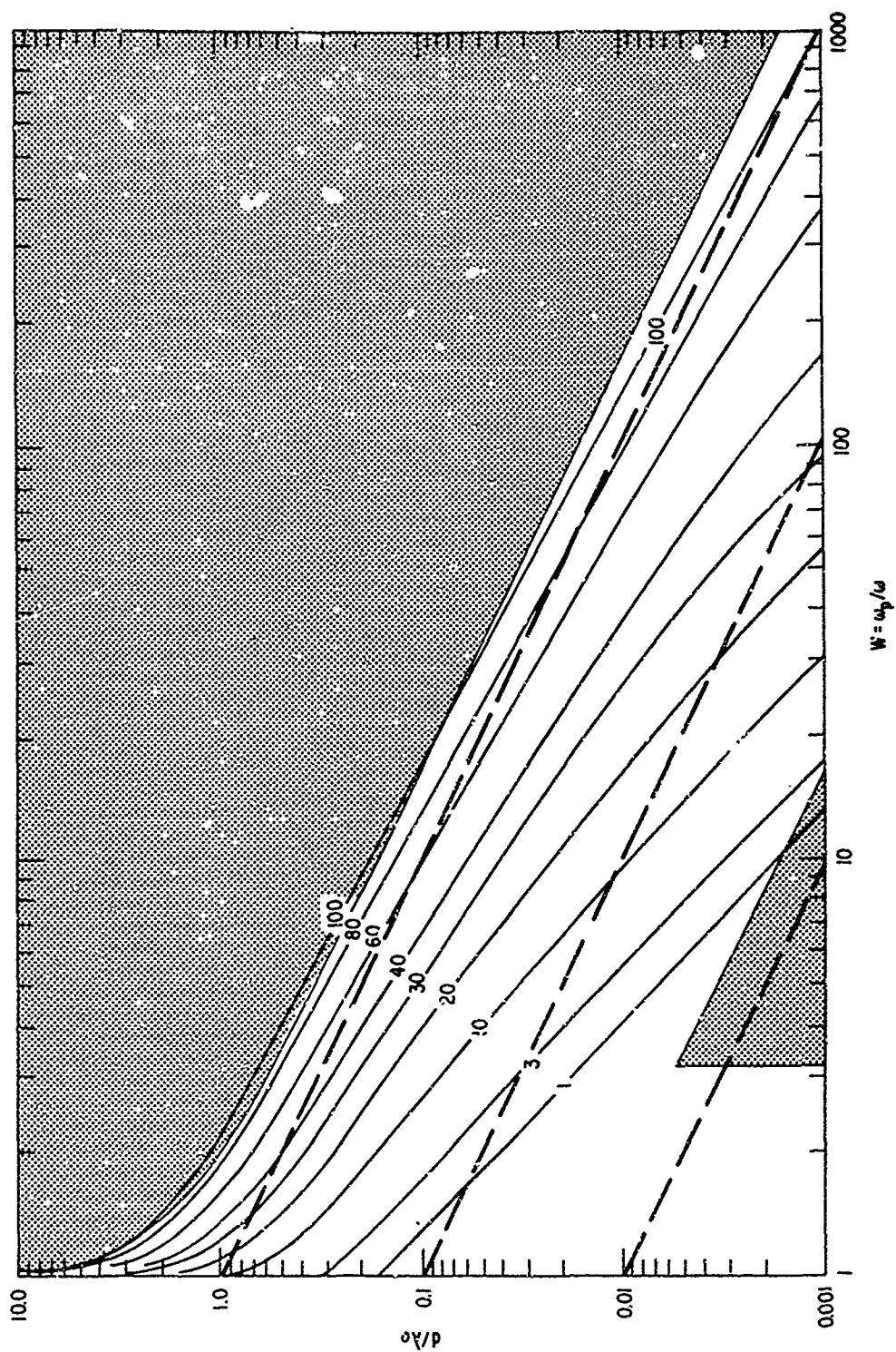


Fig. 2. Plasma Slab Attenuation Contours ( $\nu/\omega_p = 0$ )



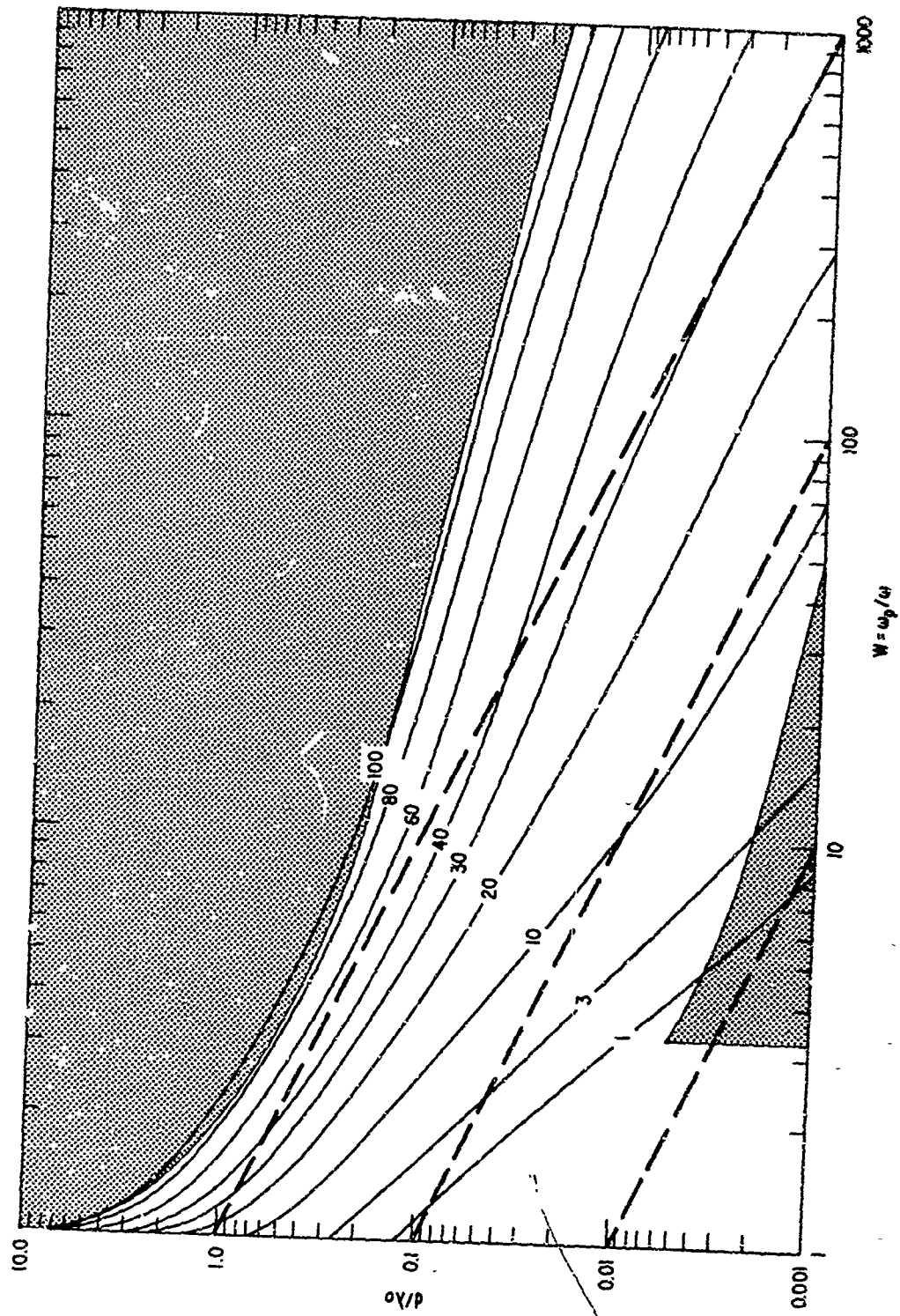


Fig. 3. Plasma Slab Attenuation Contours ( $\nu/\omega_p = 0.1$ )

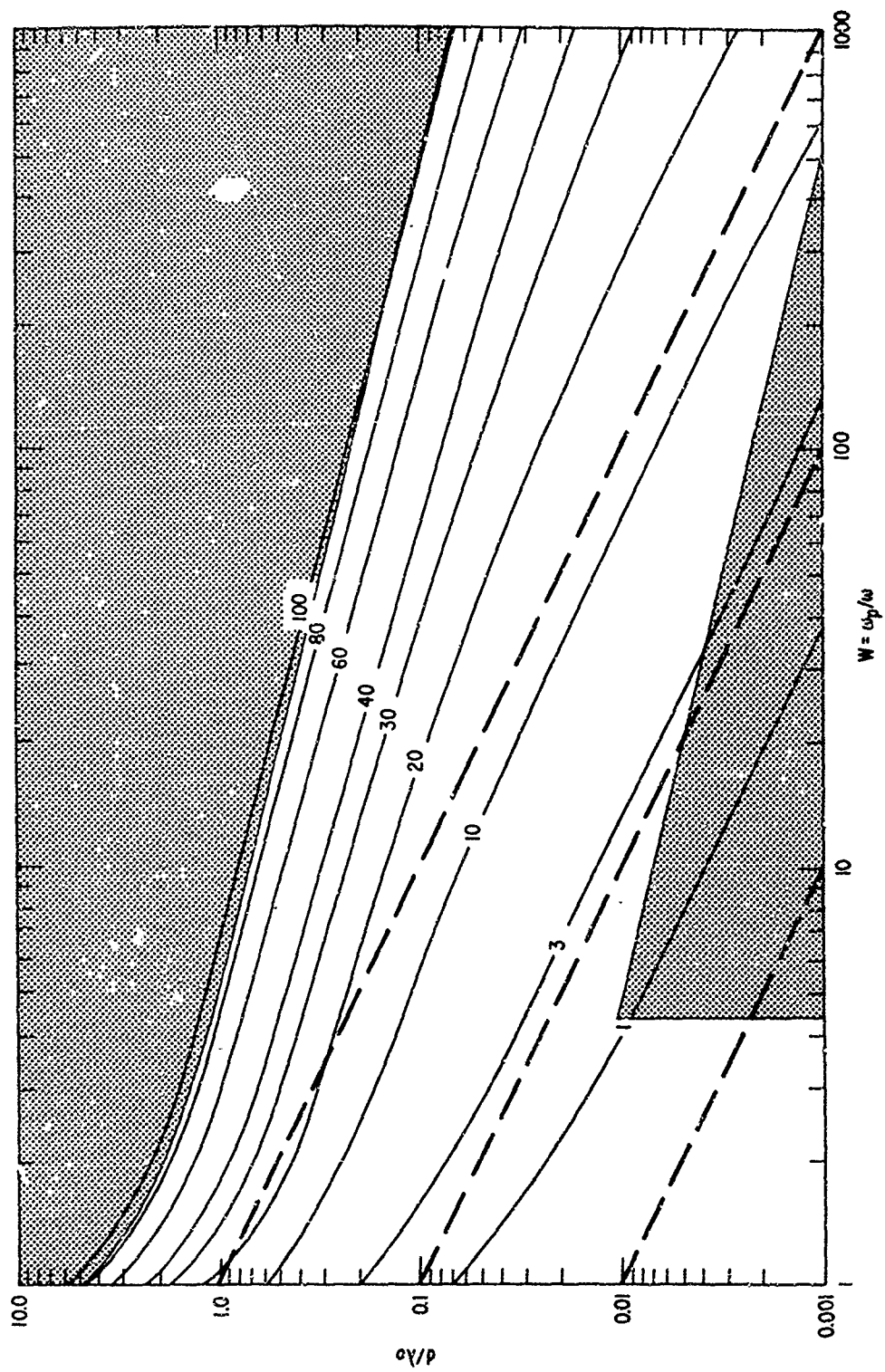


Fig. 4. Plasma Slab Attenuation Contours ( $\nu / \omega_p = 1.0$ )

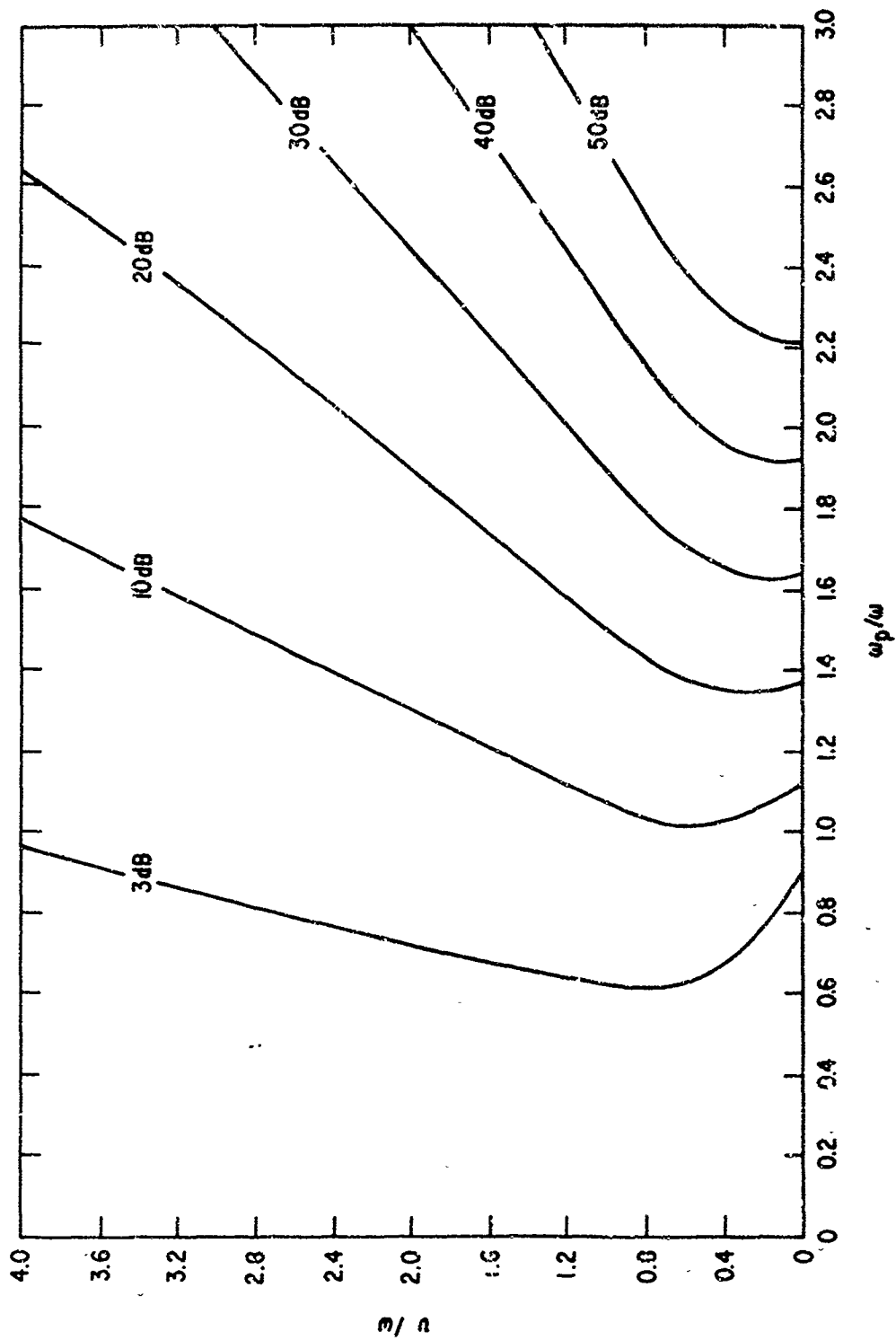


Fig. 5. Dependence of Plasma Slab Attenuation on Electron Density and Collision Frequency ( $d/\lambda_0 = 0.5$ )

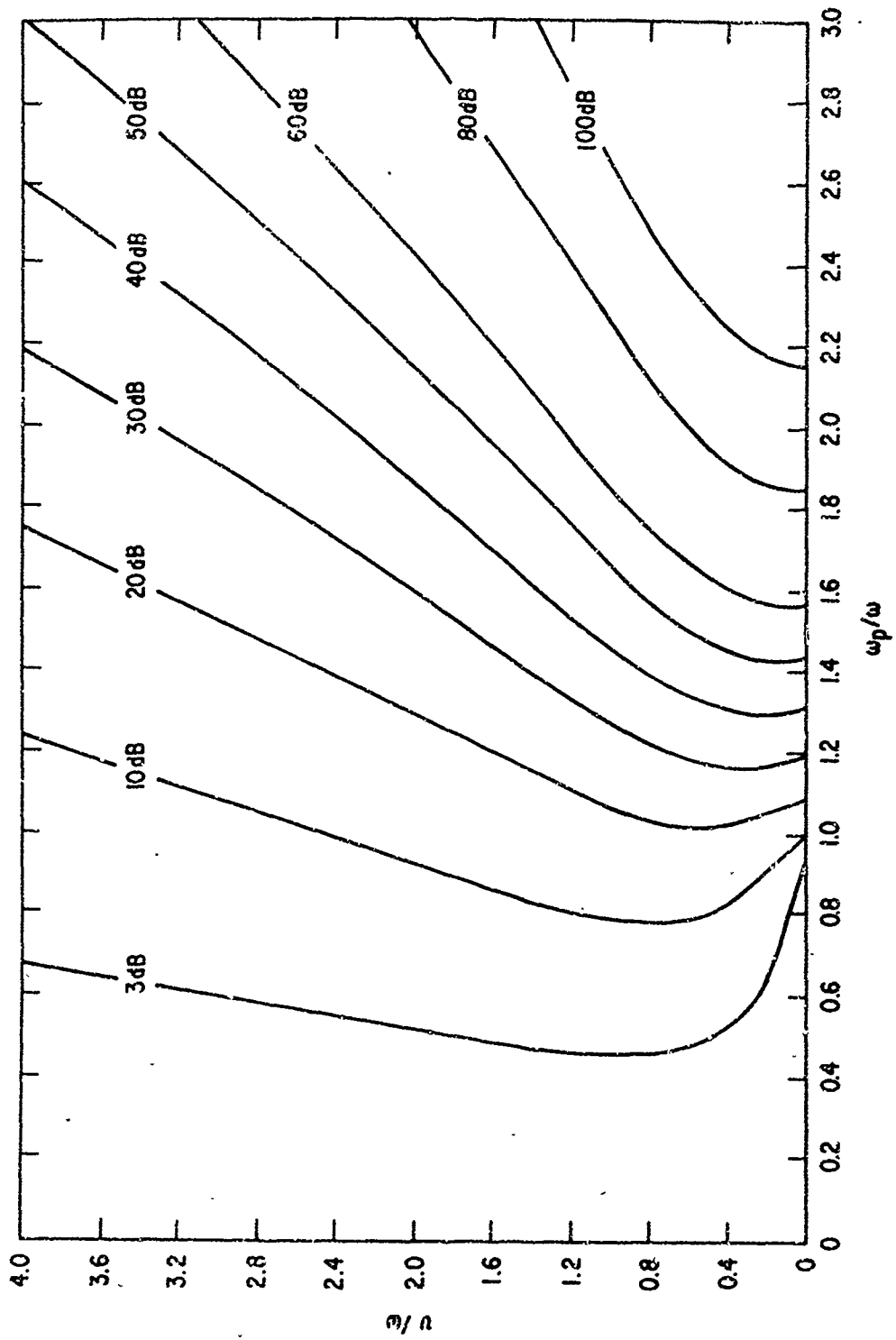


Fig. 6. Dependence of Plasma Slab Attenuation on Electron Density and Collision Frequency ( $d/\lambda_o = 1.0$ )

For lossy plasmas, the attenuation no longer decreases with increasing signal frequency. Typically, the attenuation approaches an asymptotic value at low frequency and at first increases with increasing frequency. As the signal frequency approaches the plasma frequency, the attenuation goes through a maximum and begins to decrease with increasing signal frequency.

The shaded areas in Figs. 2 through 4 represent the regions where the slab computations can be approximated by asymptotic solutions. In the lower region, jump conditions (Ref. 1) can be used to approximate the plasma layer. In other words, when the plasma thickness is much smaller than an attenuation length, the reflection and transmission characteristics are governed by an equivalent surface impedance or induced surface current density. The transmission coefficient can be approximated by

$$t \approx \frac{1}{1 + Z_s/2Z_0}$$

where  $Z_s/Z_0$  is the normalized plasma surface impedance and

$$Z_s/Z_0 = \frac{1}{W_{k_0}^2 d} (V + j)$$

When the plasma thickness is much greater than an attenuation length (upper shaded region), the signal attenuation can be approximated by

$$t \approx \left[ \frac{4 k_p/k_0}{(k_p/k_0 + 1)^2} \right] e^{-\alpha_p d} \quad (3)$$

where  $\alpha_p$  is the plasma attenuation constant. The first term in Eq. (3) is equivalent to a reflecting loss; the exponential term is equal to the amount of attenuation a ray encounters in one pass through the plasma layer.

Figures 5 and 6 illustrate the effects of collisions on the signal attenuation for a plasma thickness of  $0.5 \lambda_0$  and  $1.0 \lambda_0$ , respectively. These figures show that collisional effects tend to reduce signal attenuation except in the region near the plasma frequency ( $W \sim 1$ ).

#### B. PLASMA-ANTENNA INTERACTIONS

The detrimental effects on rf communications produced by reentry plasma sheaths (such as antenna pattern distortion, signal attenuation, and antenna impedance changes) have been discussed in the literature (Refs. 1 - 6). Due to the high attenuation of the fields within the reentry plasma sheath, the antenna pattern distortions produced by multiple reflection inside the sheath are relatively unimportant. If the surrounding plasma is separated from the metallic skin of the vehicle by a dielectric ablating material such as Teflon, the resulting radiation patterns may be distorted due to the ducting of rf energy between the plasma and vehicle; however, when the dielectric spacing is much smaller than a wavelength these effects tend to be relatively small compared with signal absorption in the plasma and with antenna impedance effects.

When the plasma sheath is in contact with the conducting surface of the vehicle and the thickness of the sheath is large compared with an attenuation length, the following infinite slot (see Fig. 7) analysis demonstrates the correspondence between the plane wave theory and

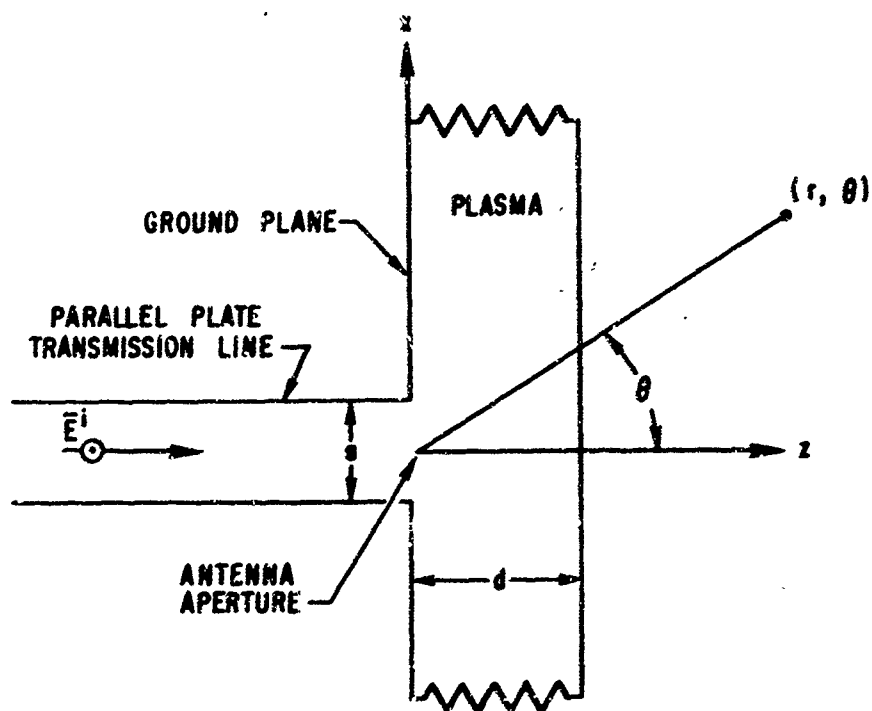


Fig. 7. Slot Antenna Geometry

the antenna formulation. The normalized far-field radiation pattern can be expressed as follows (Ref. 7):

$$E_y(\theta) = E_{ap} \left[ \frac{\left(\frac{a}{\pi}\right)^2 \cos\theta \cos\left(\frac{k_o a \sin\theta}{2}\right)}{\left(\frac{\pi}{a}\right)^2 - (k_o \sin\theta)^2} \right] \left[ \frac{1}{\cos k_{pz} d + j \frac{k_{oz}}{k_{pz}} \sin k_{pz} d} \right] \quad (4)$$

when the slot is excited by the dominant TE mode (co-sinusoidal aperture distribution), and where  $a$  is the aperture width,  $E_{ap}$  is the complex amplitude of the electric field across the aperture,  $\theta$  is the angle of observation with respect to the  $z$  axis, the subscript  $z$  denotes the  $z$  component of the respective wavenumbers, and where

$$k_{oz} = k_o \cos\theta$$

$$k_{pz} = k_o \left[ k_p^2/k_o^2 - \sin^2\theta \right]^{1/2}$$

$$k_p^2/k_o^2 = 1 - \frac{W^2}{1+jV}$$

The term  $E_{ap}$  accounts for changes in the driving point admittance of the slot, the second term depicts the normal distribution of electromagnetic energy in the far field in the absence of plasma, and the last term expresses the effects of plasma on the radiation. The magnitude of the last term in Eq. (4) approaches unity as the plasma is removed. In order to evaluate the change in signal level caused by the plasma layer the following ratio is determined (Ref. 8)

$$g(\theta) = \frac{|E_y^p(\theta, r)|^2}{|E_y^o(\theta, r)|^2} \quad (5)$$



where the superscripts p and o denote the conditions with and without the sheath, respectively. Substitution of Eq. (4) into Eq. (5) yields

$$g(\theta) = \frac{|E_{ap}^p|^2}{|E_{ap}^o|^2} \left| \frac{1}{\cos k_{pz} d + j \frac{k_{oz}}{k_{pz}} \sin k_{pz} d} \right|^2 \quad (6)$$

The gain function  $g(\theta)$  is evaluated for a constant input power to the radiating system, with the source assumed to be well isolated from the aperture, so that changes in the driving point admittance of the aperture have no effect on the frequency or output of the source. Equation (6) therefore represents the total plasma attenuation.

The amplitude of the electric field developed in the aperture in the absence of the plasma  $E_{ap}^o$  can be expressed (neglecting the evanescent modes) as

$$E_{ap}^o = E_o^i (1 + \hat{\Gamma}_o) \quad (7)$$

where  $E_o^i$  is the incident electric field in the feed waveguide and  $\hat{\Gamma}_o$  is the complex voltage reflection coefficient for the aperture radiating into free space. In a similar manner the electric field in the presence of the plasma sheath can be expressed as

$$E_{ap}^p = E_o^i (1 + \hat{\Gamma}_p) \quad (8)$$

where  $\hat{\Gamma}_p$  is the complex voltage reflection coefficient of the aperture radiating into the plasma environment.

Combining Eqs. (6), (7), and (8) and normalizing the gain function yields

$$G(\theta) = g(\theta) \left| 1 + \frac{\Lambda}{r_o} \right|^2$$

$$G(j) = \left| 1 + \frac{\Lambda}{r_p} \right|^2 \left| \frac{1}{\cos k_{pz} d + j \frac{k_{oz}}{k_{pz}} \sin k_{pz} d} \right|^2 \quad (9)$$

When the plasma is highly overdense, i. e.,  $|k_p| \gg k_o$ , and the slab is thick compared with a plasma attenuation length, i. e.,  $\text{Im}(k_p d) \gg 1$ , the following simplifications can be introduced:

$$G(\theta) \approx 4 \left| 1 + \frac{\Lambda}{r_p} \right|^2 \exp[-2\text{Im}(k_p d)] \quad (10)$$

Furthermore, the aperture reflection coefficient  $\frac{\Lambda}{r_p}$  is related to the driving point admittance of the slot  $Y_{ap}^p$  which radiates into the plasma environment

$$\frac{\Lambda}{r_p} = \frac{1 - Y_{ap}^p / Y_g}{1 + Y_{ap}^p / Y_g} \quad (11)$$

The driving point admittance for an infinite slot antenna radiating into a plasma environment can be approximated by (Ref. 9)

$$Y_{ap}^p \approx \frac{k_p}{k_o} \left( \frac{\epsilon_o}{\mu_o} \right)^{1/2} \quad (12)$$

when the plasma region is assumed to be highly overdense and semi-infinite in extent. Equation (12) is also applicable for a plasma

slab geometry, provided the plasma is lossy and the slab thickness is much greater than an attenuation length. In other words, the reflections occurring at the aperture interface tend to be insensitive to the plasma thickness and are approximated by results obtained for a slot antenna radiating into a plasma half space.

The ratio  $(\epsilon_0/\mu_0)^{1/2}/Y_g$  is related to the equivalent angle of incidence  $\gamma$  of the two plane waves reflecting off the walls of the waveguide which comprise the dominant TE mode (Ref. 10)

$$Y_g/(\epsilon_0/\mu_0)^{1/2} = \cos\gamma \quad (13)$$

Substituting Eqs. (11), (12) and (13) into Eq. (10) yields the approximate expression for the overall degradation by the highly reflecting and absorbing plasma sheath of the rf signal emanating from a slot antenna:

$$G(\theta) \cong \left| \frac{4 k_o \cos\gamma}{k_p} \right|^2 \exp[-2\text{Im}(k_p d)] \quad (14)$$

The plasma slab transmission coefficient for a plane wave incident upon the slab at an angle  $\gamma$ , with the electric field polarized in the plane of the plasma interface, is (Ref. 1)

$$t = \frac{E^t}{E^i} = \frac{e^{+jk_{oz}d}}{\cos k_{pz}d + (j/2)(k_{pz}/k_{oz} + k_{oz}/k_{pz}) \sin k_{pz}d} \quad (15)$$

Under the assumptions used in Eq. (14), namely  $\text{Im } k_p d \gg 1$ ,  $|k_p| \gg k_o$ , the plane wave transmission coefficient reduces to

$$|t|^2 = \left| 4 \frac{k_o \cos \gamma}{k_p} \right|^2 \exp[-2\text{Im}(k_p d)]$$

which is the same result obtained from the slot antenna analysis, i. e.,

$$G(\theta) = |t|^2$$

Thus the net effect produced by the thick overdense plasma sheath on the rf radiation emanating from the slot is an overall attenuation of the signal with no redistribution of the far-field radiation pattern other than what would be predicted from plane wave theory.

### C. INHOMOGENEOUS PLASMA PROPERTIES

The equivalent dielectric properties of the plasma slab were assumed to be homogeneous in order to simplify the computations. This assumption seems to yield more than adequate numerical results for most reentry system analyses. For example, where the plasma sheath is highly overdense and thin compared with a plasma attenuation length (conditions which are satisfied in many slender-body reentry vehicle configurations), the plane wave reflection and transmission coefficients are functions of the integrated plasma conductivity and are independent of the electron density distribution. In other words, the signal attenuation through a plasma layer is governed by the equivalent surface current or surface impedance, which can be approximated by means of a homogeneous plasma slab.

When the thickness of the overdense plasma is smaller than a free space wavelength and is of the order of or greater than a plasma attenuation length (conditions which are normally characteristic of severe reentry blackout problems such as are observed in lifting reentry), the plasma reflection and transmission coefficients may be affected by the inhomogeneities within the reentry plasma sheath. Typical errors in the transmission coefficient attributed to the neglect of the inhomogeneities are illustrated in Fig. 8 as a function of both arbitrary polarization and angle of incidence.

The equivalent homogeneous plasma slab used to approximate the inhomogeneous case was characterized by a plasma frequency corresponding to the peak electron density in the sheath profile, a thickness which conserves the integrated electron density, and an average collision frequency. The homogeneous attenuation calculations were computed assuming a plane wave model for an arbitrary angle of incidence (Ref. 1) and results were compared with the inhomogeneous numerical results obtained by G. Bein (Ref. 11). The electron density distribution used by Bein is shown in Fig. 9, and is typical for a boundary layer plasma sheath. The peak electron density is  $4 \times 10^{11}$  electrons per  $\text{cm}^3$  and the equivalent collision frequency is about  $2 \times 10^8$  collisions per second. The equivalent homogeneous slab is also sketched in Fig. 9 and has a thickness of 0.5 cm. The signal frequency is 244.3 MHz. The results illustrated in Fig. 8 demonstrate that the errors associated with the homogeneous slab are well within reasonable tolerances compared with those signal attenuation errors associated with the estimation of electron density. For example, an error of a factor of two in electron density would result in a 6 dB error in the attenuation level, whereas the homogeneous assumption introduces an error of less than 2 dB.

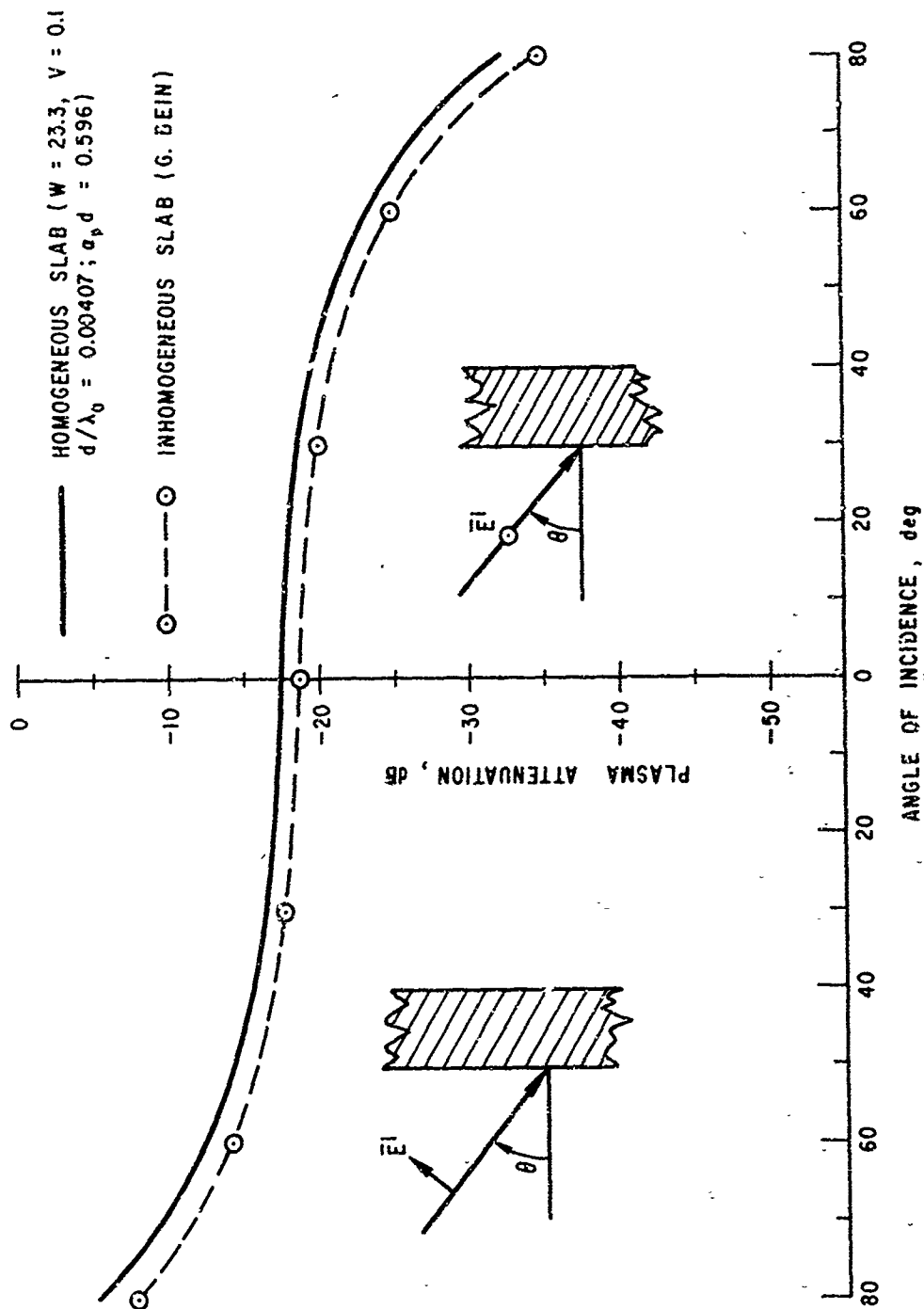


Fig. 8. Inhomogeneous Plasma Slab Attenuation

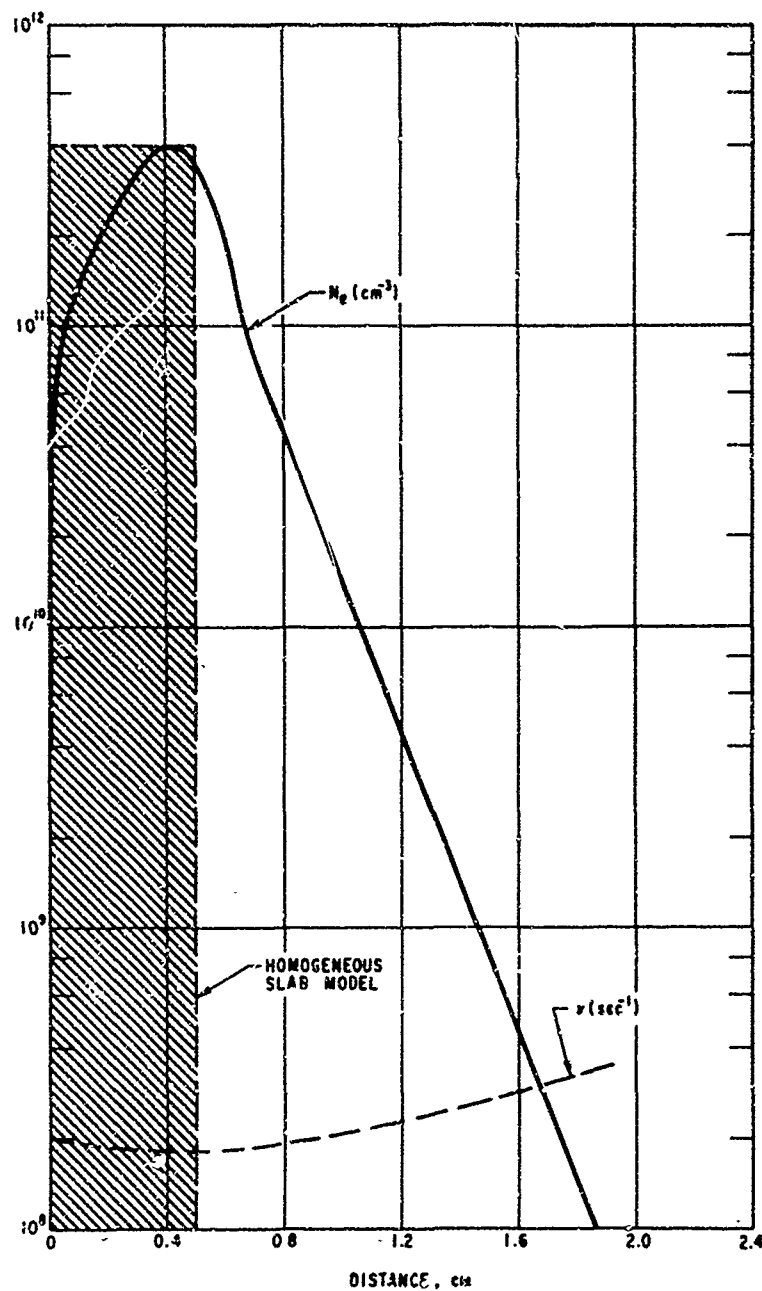


Fig. 9. Plasma Characteristics Used in Inhomogeneous Attenuation Computation

When the reentry plasma sheath has an equivalent thickness which is of the order of a free space wavelength, the reflection coefficient is more strongly dependent upon the inhomogeneous properties of the plasma; however, when the reentry plasma conditions produce severe signal blackout the dominant attenuation mechanism is absorption. Several examples of half-wavelength plasma sheaths characterized by a triangular electron density distribution are given in Volume I of this report. The results were then compared with an equivalent homogeneous slab model. The comparison illustrated that the homogeneous slab computation adequately approximated the signal attenuation produced by the inhomogeneous sheath. Typical errors were of the order of 1 to 2 dB in a total attenuation of -20 dB.

The preceding sample computations illustrate that plasma inhomogeneities introduce small deviations from the signal attenuation results obtainable from a homogeneous plasma slab model. The plasma characteristics used in the analysis were not intended to represent exact lifting reentry conditions, but were chosen to depict regions where departures from plane wave homogeneous results would be most prevalent. These results demonstrate that for most reentry conditions, ranging from slender body to severe lifting reentry configurations, the surrounding plasma sheath can be approximated by an equivalent homogeneous plasma slab.



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APPENDIX

PLANE WAVE ATTENUATION TABLES

## NOTE ON USING TABLES

### NOMENCLATURE

$$D/LAM.O = d/\lambda_o$$

$$W = \omega_p/\omega$$

$$VLAM.O/W^{**2}D = \sqrt{\lambda_o}/W^2d$$

$$0.1000 E - 05 \text{ denotes } 0.1 \times 10^{-5}$$

$$0.1000 E 05 \text{ denotes } 0.1 \times 10^{+5}$$

### GUIDE TO VALUES OF VARIABLES

#### A. Pages A-3 through A-22

1.  $\omega_p/\omega \rightarrow 0.8 \text{ to } 2.0$  (complete range each page)
2.  $\sqrt{\lambda_o}/W^2d \rightarrow 10^{-3} \text{ to } 1$  (one value per page)
3.  $d/\lambda_o \rightarrow 0.1 \text{ to } 3.5$  (complete range each page)

#### B. Pages A-23 through A-42

1.  $\omega_p/\omega \rightarrow 2.0 \text{ to } 50.0$  (complete range each page)
2.  $\sqrt{\lambda_o}/W^2d \rightarrow 10^{-3} \text{ to } 1$  (one value per page)
3.  $d/\lambda_o \rightarrow 10^{-4} \text{ to } 2$  (complete range each page)

#### C. Pages A-43 through A-62

1.  $\omega_p/\omega \rightarrow 50 \text{ to } 800$  (complete range each page)
2.  $\sqrt{\lambda_o}/W^2d \rightarrow 10^{-4} \text{ to } 1$  (one value per page)
3.  $d/\lambda_o \rightarrow 10^{-5} \text{ to } 1.5$  (complete range each page)

D/LAM.0	W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.4	0.6	0.9	1.2	1.6	2.0	2.5	3.1	3.8	4.5	5.2
0.2000E 00	0.5	0.9	1.4	2.2	3.1	4.2	5.4	6.7	8.2	9.6	11.1	12.7	14.2	15.7
0.3000E 00	0.9	1.7	2.8	4.1	5.6	7.4	9.4	11.6	14.0	16.5	19.0	21.4	23.6	25.8
0.4000E 00	1.1	2.3	4.1	6.2	8.6	11.2	14.0	16.9	20.0	23.1	26.2	29.3	32.4	35.5
0.5000E 00	1.0	2.6	4.6	7.0	9.6	12.4	15.4	18.4	21.5	24.6	27.6	30.6	33.6	36.6
0.6000E 00	0.7	2.7	5.4	8.1	10.9	13.8	16.8	19.8	22.8	25.8	28.8	31.8	34.8	37.8
0.7000E 00	0.3	2.7	6.6	9.7	12.9	16.1	19.4	22.7	26.0	29.3	32.6	35.9	39.2	42.5
0.8000E 00	0.0	2.0	7.7	11.5	15.4	19.3	23.2	27.1	31.0	34.9	38.8	42.7	46.6	50.5
0.9000E 00	0.1	1.3	9.6	13.9	18.2	22.5	26.8	31.1	35.4	39.7	44.0	48.3	52.6	56.9
0.1000E 01	0.4	0.6	10.4	15.1	19.8	24.5	29.2	33.9	38.6	43.3	48.0	52.7	57.4	62.1
0.1100E 01	0.8	0.1	11.2	16.4	21.6	26.8	32.0	37.2	42.4	47.6	52.8	58.0	63.2	68.4
0.1200E 01	1.1	0.2	11.9	17.4	22.6	27.8	33.0	38.2	43.4	48.6	53.8	59.0	64.2	69.4
0.1300E 01	1.1	0.7	12.5	18.5	23.7	28.9	34.1	39.3	44.5	49.7	54.9	60.1	65.3	70.5
0.1400E 01	0.8	1.4	13.2	19.6	24.8	29.9	35.1	40.3	45.5	50.7	55.9	61.1	66.3	71.5
0.1500E 01	0.5	2.1	13.7	20.7	25.9	31.1	36.3	41.5	46.7	51.9	57.1	62.3	67.5	72.7
0.1600E 01	0.1	2.0	14.3	21.8	27.0	32.2	37.4	42.6	47.8	53.0	58.2	63.4	68.6	73.8
0.1700E 01	0.1	2.0	14.8	22.9	28.1	33.3	38.5	43.7	48.9	54.1	59.3	64.5	69.7	74.9
0.1800E 01	0.3	2.7	15.3	24.0	29.2	34.4	39.6	44.8	50.0	55.2	60.4	65.6	70.8	76.0
0.1900E 01	0.7	2.4	15.8	25.1	30.3	35.5	40.7	45.9	51.1	56.3	61.5	66.7	71.9	77.1
0.2000E 01	1.1	1.8	16.2	26.2	31.4	36.6	41.8	47.0	52.2	57.4	62.6	67.8	73.0	78.2
0.2100E 01	1.2	1.1	16.6	27.3	32.5	37.7	42.9	48.1	53.3	58.5	63.7	68.9	74.1	79.3
0.2200E 01	1.0	0.5	17.1	28.4	33.6	38.8	44.0	49.2	54.4	59.6	64.8	70.0	75.2	80.4
0.2300E 01	0.6	0.3	17.5	29.5	34.7	39.9	45.1	50.3	55.5	60.7	65.9	71.1	76.3	81.5
0.2400E 01	0.3	0.6	17.8	30.6	35.8	41.0	46.2	51.4	56.6	61.8	67.0	72.2	77.4	82.6
0.2500E 01	0.1	1.2	18.2	31.7	36.9	42.1	47.3	52.5	57.7	62.9	68.1	73.3	78.5	83.7
0.2600E 01	0.3	1.9	18.5	32.8	38.0	43.2	48.4	53.6	58.8	64.0	69.2	74.4	79.6	84.8
0.2700E 01	0.7	2.5	18.9	33.9	39.1	44.3	49.5	54.7	59.9	65.1	70.3	75.5	80.7	85.9
0.2800E 01	1.0	2.9	19.3	35.0	40.2	45.4	50.6	55.8	61.0	66.2	71.4	76.6	81.8	87.0
0.2900E 01	1.2	2.7	19.6	36.1	41.3	46.5	51.7	56.9	62.1	67.3	72.5	77.7	82.9	88.1
0.3000E 01	1.1	2.7	19.9	37.2	42.4	47.6	52.8	58.0	63.2	68.4	73.6	78.8	84.0	89.2
0.3100E 01	0.9	2.3	20.2	38.3	43.5	48.7	53.9	59.1	64.3	69.5	74.7	79.9	85.1	90.3
0.3200E 01	0.5	1.7	20.5	39.4	44.6	49.8	55.0	60.2	65.4	70.6	75.8	81.0	86.2	91.4
0.3300E 01	0.2	1.1	20.8	40.5	45.7	50.9	56.1	61.3	66.5	71.7	76.9	82.1	87.3	92.5
0.3400E 01	0.3	0.7	21.1	41.6	46.8	52.0	57.2	62.4	67.6	72.8	78.0	83.2	88.4	93.6
0.3500E 01	0.6	0.8	21.4	42.7	47.9	53.1	58.3	63.5	68.7	73.9	79.1	84.3	89.5	94.7

D/LAM.0	W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.4	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.5	3.1	3.8	4.5	5.2
0.2000E 00	0.5	1.5	0.9	1.5	2.2	3.1	4.2	5.4	6.8	8.2	9.7	11.2	12.7	14.2
0.3000E 00	0.9	2.8	1.7	2.8	4.3	6.1	8.1	10.3	12.5	14.8	17.1	19.2	21.5	23.7
0.4000E 00	1.1	2.3	1.7	4.2	6.6	9.5	12.5	15.4	18.5	21.5	24.5	27.4	30.3	33.1
0.5000E 00	1.0	5.5	2.7	5.5	9.1	13.0	16.9	20.8	24.6	28.4	32.0	35.6	39.1	42.6
0.6000E 00	0.7	2.8	2.8	6.7	11.6	16.6	21.4	26.2	30.7	35.2	39.5	43.8	47.9	52.0
0.7000E 00	0.4	7.8	2.5	7.8	14.1	20.2	26.0	31.5	36.9	42.0	47.0	52.0	56.8	61.5
0.8000E 00	0.2	8.9	2.2	8.9	16.6	23.8	30.5	36.9	43.0	48.9	54.6	60.1	65.6	71.0
0.9000E 00	0.2	9.8	1.6	9.8	19.1	27.4	35.1	42.3	49.1	55.7	62.1	68.3	74.4	80.4
0.1000E 01	0.6	1.1	1.1	10.7	21.6	31.1	39.6	47.6	55.2	62.5	69.6	76.5	83.3	89.9
0.1100E 01	1.0	11.5	0.7	11.5	24.2	34.7	44.2	53.0	61.3	69.3	77.1	84.7	92.1	99.3
0.1200E 01	1.3	12.3	0.8	12.3	26.7	38.4	48.7	58.3	67.4	76.2	84.6	92.8	100.9	108.8
0.1300E 01	1.3	13.1	1.4	13.1	29.2	42.0	53.3	63.7	73.5	83.0	92.1	101.0	109.7	118.2
0.1400E 01	1.2	13.8	2.1	13.8	31.7	45.6	57.8	69.1	79.7	89.8	99.6	109.2	118.5	127.7
0.1500E 01	0.9	14.5	2.8	14.5	34.2	49.3	62.4	74.4	85.8	96.6	107.1	117.3	127.3	137.1
0.1600E 01	0.6	15.2	3.3	15.2	36.8	52.9	66.9	79.8	91.9	103.4	114.6	125.5	136.1	146.5
0.1700E 01	0.6	15.8	3.6	15.8	39.3	56.5	71.5	85.1	98.0	110.3	122.1	133.6	144.9	155.9
0.1800E 01	0.9	16.5	3.7	16.5	41.8	60.2	76.0	90.5	104.1	117.1	129.6	141.8	153.7	165.3
0.1900E 01	1.3	17.1	3.5	17.1	44.3	63.8	80.5	95.8	110.2	123.9	137.1	149.9	162.5	174.7
0.2000E 01	1.7	17.8	3.2	17.8	46.9	67.4	85.1	101.2	116.3	130.7	144.6	158.1	171.2	184.1
0.2100E 01	1.8	18.4	2.9	18.4	49.4	71.1	89.6	106.5	122.4	137.5	152.1	166.2	180.0	193.5
0.2200E 01	1.3	19.1	2.7	19.1	51.9	74.7	94.2	111.9	128.5	144.3	159.6	174.3	188.8	202.9
0.2300E 01	1.5	19.8	2.8	19.8	54.5	78.3	98.7	117.2	134.6	151.1	167.0	182.5	197.5	212.3
0.2400E 01	1.3	20.4	3.1	20.4	57.0	82.0	103.3	122.6	140.7	157.9	174.5	190.6	206.3	221.6
0.2500E 01	1.3	21.2	3.7	21.2	59.5	85.6	107.8	127.9	146.8	164.7	182.0	198.7	215.0	231.0
0.2600E 01	1.5	21.9	4.3	21.9	62.0	89.2	112.3	133.3	152.9	171.5	189.4	206.8	223.8	240.3
0.2700E 01	1.9	22.7	4.8	22.7	64.6	92.9	116.9	138.6	158.9	178.3	196.9	214.9	232.5	249.7
0.2800E 01	2.3	23.4	5.2	23.4	67.1	96.5	121.4	144.0	165.0	185.1	204.3	223.0	241.2	259.0
0.2900E 01	2.5	24.3	5.5	24.3	69.6	100.1	125.9	149.3	171.1	191.8	211.8	231.1	249.9	268.3
0.3000E 01	2.5	25.1	5.6	25.1	72.2	103.8	130.5	154.6	177.2	198.6	219.2	239.2	258.6	277.6
0.3100E 01	2.4	26.0	5.6	26.0	74.7	106.4	135.0	160.0	183.3	205.4	226.7	247.3	267.3	286.9
0.3200E 01	2.3	26.8	5.5	26.8	77.2	111.0	139.5	165.3	189.3	212.2	234.1	255.3	276.0	296.1
0.3300E 01	2.3	27.8	5.6	27.8	79.8	114.7	144.1	170.6	195.4	218.9	241.5	263.4	284.7	305.4
0.3400E 01	2.4	28.7	5.7	28.7	82.3	118.3	148.6	176.0	201.5	225.7	248.9	271.4	293.3	314.6
0.3500E 01	2.7	29.6	6.0	29.6	84.8	121.9	153.1	181.3	207.5	232.4	256.4	279.5	302.0	323.9

Y= 0.

VLAM.0/W\*20= 0.100000E-01

-20. LOG /T/

D/LAM.0	W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.4	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.6	3.2	3.9	4.5	5.2
0.2000E 00	0.6	1.5	0.9	2.2	3.1	4.2	4.2	5.4	6.8	8.2	9.7	11.2	12.7	14.3
0.3000E 00	0.9	2.8	1.7	4.3	6.1	8.2	10.3	12.6	14.8	17.1	19.3	21.5	23.7	25.9
0.4000E 00	1.1	4.2	2.3	6.7	9.5	12.5	15.6	18.6	21.6	24.6	27.5	30.4	33.2	35.9
0.5000E 00	1.1	5.6	2.8	9.2	13.1	17.0	20.9	24.7	28.4	32.1	35.7	39.2	42.7	45.9
0.6000E 00	0.8	6.8	2.9	11.7	16.7	21.5	26.3	30.8	35.3	39.6	43.9	48.0	52.1	55.9
0.7000E 00	0.5	8.0	2.8	14.2	20.3	26.1	31.6	37.0	42.1	47.1	52.0	56.9	61.6	65.9
0.8000E 00	0.3	9.1	2.5	16.7	23.9	30.7	37.0	43.1	49.0	54.7	60.2	65.7	71.0	75.9
0.9000E 00	0.4	10.1	2.0	19.3	27.6	35.2	42.4	49.2	55.8	62.2	68.4	74.5	80.5	85.9
0.1000E 01	0.8	11.1	1.6	21.8	31.3	39.8	47.8	55.3	62.6	69.7	76.6	83.3	89.9	95.9
0.1100E 01	1.2	12.0	1.4	24.4	34.9	44.3	53.1	61.4	69.4	77.2	84.7	92.1	99.3	105.9
0.1200E 01	1.5	12.9	1.6	26.9	38.6	48.9	58.5	67.6	76.3	84.7	92.8	100.8	108.7	115.9
0.1300E 01	1.6	13.7	2.1	29.5	42.2	53.5	63.8	73.7	83.1	92.1	101.0	109.6	118.0	125.4
0.1400E 01	1.5	14.5	2.8	32.0	45.9	58.0	69.2	79.8	89.9	99.6	109.1	118.3	127.4	135.7
0.1500E 01	1.3	15.4	3.6	34.6	49.5	62.6	74.6	85.9	96.7	107.1	117.2	127.1	136.7	145.3
0.1600E 01	1.1	16.2	4.1	37.1	53.2	67.1	79.9	92.0	103.5	114.5	125.3	135.8	146.0	155.3
0.1700E 01	1.2	17.0	4.5	39.7	56.8	71.7	85.3	98.0	110.2	122.0	133.4	144.4	155.3	164.5
0.1800E 01	1.5	17.9	4.7	42.2	60.4	76.2	90.6	104.1	117.0	129.4	141.4	153.1	164.5	173.7
0.1900E 01	2.0	18.8	4.8	44.8	64.1	80.7	95.9	110.2	123.8	136.8	149.5	161.7	173.7	182.9
0.2000E 01	2.3	19.7	4.8	47.3	67.7	85.3	101.3	116.3	130.5	144.2	157.5	170.4	182.9	192.1
0.2100E 01	2.6	20.6	4.8	49.9	71.4	89.8	106.6	122.3	137.3	151.6	165.5	179.0	192.1	201.2
0.2200E 01	2.6	21.6	4.9	52.5	75.0	94.3	111.9	128.4	144.0	159.0	173.5	187.5	201.2	210.3
0.2300E 01	2.5	22.6	5.2	55.0	78.7	98.9	117.2	134.4	150.7	166.3	181.4	196.1	210.3	219.3
0.2400E 01	2.5	23.7	5.7	57.6	82.3	103.4	122.5	140.4	157.4	173.7	189.4	204.6	219.3	228.4
0.2500E 01	2.6	24.8	6.3	60.1	85.9	107.9	127.8	146.5	164.1	181.0	197.3	213.1	228.4	237.4
0.2600E 01	2.8	25.9	6.9	62.7	89.6	112.4	133.1	152.5	170.8	188.3	205.2	221.5	237.4	246.3
0.2700E 01	3.2	27.0	7.5	65.3	93.2	116.9	138.4	158.5	177.5	195.6	213.1	230.0	246.3	255.2
0.2800E 01	3.6	28.2	8.0	67.8	96.8	121.5	143.7	164.5	184.1	202.9	220.9	238.4	255.2	264.1
0.2900E 01	3.9	29.4	8.5	70.4	100.5	126.0	149.0	170.5	190.8	210.1	228.8	246.7	264.1	272.9
0.3000E 01	4.1	30.7	8.9	73.0	104.1	130.5	154.3	176.4	197.4	217.4	236.6	255.1	272.9	281.7
0.3100E 01	4.2	31.9	9.2	75.6	107.7	135.0	159.5	182.4	204.0	224.6	244.4	263.4	281.7	290.4
0.3200E 01	4.2	33.2	9.6	78.1	111.3	139.4	164.8	188.4	210.6	231.8	252.1	271.6	290.4	299.1
0.3300E 01	4.4	34.5	10.1	80.7	115.0	143.9	170.1	194.3	217.2	239.0	259.8	279.9	299.1	307.8
0.3400E 01	4.7	35.9	10.6	83.3	118.6	148.4	175.3	200.2	223.7	246.1	267.5	288.0	307.8	316.4
0.3500E 01	5.0	37.2	11.1	85.9	122.2	152.9	180.5	206.1	230.3	253.2	275.2	296.2	316.4	325.0

D/LAM.0	H	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.6	3.2	3.8	4.5	5.3	6.1
0.2000E 00	0.6	0.9	1.5	2.2	3.1	4.2	5.5	6.8	8.3	9.7	11.3	12.8	14.3	16.0
0.3000E 00	0.9	1.7	2.8	4.4	6.2	8.2	10.4	12.6	14.9	17.1	19.4	21.6	23.8	26.3
0.4000E 00	1.2	2.4	4.3	6.7	9.6	12.6	15.6	18.7	21.7	24.6	27.5	30.4	33.2	36.3
0.5000E 00	1.1	2.8	5.6	9.2	13.1	17.1	21.0	24.8	28.5	32.2	35.7	39.2	42.7	46.5
0.6000E 00	0.9	3.0	6.9	11.8	16.8	21.6	26.4	30.9	35.4	39.7	43.9	48.1	52.2	56.6
0.7000E 00	0.6	8.2	14.3	20.4	26.2	31.7	37.1	42.2	47.2	52.1	56.9	61.6	66.5	71.6
0.8000E 00	0.4	2.7	9.3	16.9	24.1	30.8	37.1	43.2	49.2	54.7	60.7	66.7	72.8	79.0
0.9000E 00	0.6	10.4	19.5	27.7	35.4	42.5	49.7	55.9	62.2	68.7	74.5	80.4	86.4	92.6
0.1000E 01	1.0	2.1	11.4	22.1	31.4	39.9	47.9	55.4	62.7	69.5	75.7	81.9	88.2	94.6
0.1100E 01	1.4	12.4	24.6	35.1	44.5	53.2	61.5	69.5	77.2	84.6	91.9	99.0	106.3	113.8
0.1200E 01	1.8	2.3	13.4	27.2	38.7	49.0	58.6	67.6	76.3	84.6	92.7	100.6	108.3	116.3
0.1300E 01	1.9	2.9	14.3	29.8	42.4	53.6	63.7	73.7	83.0	91.5	100.8	109.3	117.5	125.7
0.1400E 01	1.9	3.6	15.3	32.3	46.1	58.2	69.3	79.8	89.8	99.5	108.8	117.5	126.7	135.8
0.1500E 01	1.7	4.4	16.2	34.9	49.7	62.7	76.6	89.5	106.8	124.8	143.5	162.9	182.3	201.6
0.1600E 01	1.7	5.0	17.2	37.5	53.4	67.2	81.9	96.5	111.5	127.7	144.9	162.9	182.3	201.6
0.1700E 01	1.8	5.5	18.3	40.1	57.0	71.8	85.3	99.9	116.7	132.7	149.5	167.8	185.3	202.9
0.1800E 01	2.1	5.8	19.3	42.7	60.7	76.3	90.6	104.0	119.0	134.5	150.3	167.8	185.3	202.9
0.1900E 01	2.6	6.1	20.4	45.2	64.3	80.7	95.9	110.0	123.3	136.1	148.5	162.9	180.7	200.2
0.2000E 01	3.0	6.3	21.6	47.8	68.0	85.7	101.2	116.0	130.0	143.4	156.3	168.7	180.7	200.2
0.2100E 01	3.3	6.6	22.8	50.4	71.6	89.9	106.5	121.9	136.2	150.6	164.1	177.0	189.5	202.9
0.2200E 01	3.5	7.0	24.0	53.0	75.2	94.4	111.7	127.8	143.2	157.8	171.8	185.3	198.2	206.9
0.2300E 01	3.6	7.5	25.3	55.6	78.9	98.9	117.0	133.8	149.8	165.0	179.5	193.5	206.9	215.4
0.2400E 01	3.6	8.1	26.6	58.2	82.5	103.3	122.2	139.6	156.3	172.1	187.2	201.6	215.4	223.4
0.2500E 01	3.8	8.8	28.0	60.8	86.1	107.8	127.4	145.7	162.9	179.2	194.8	209.7	223.4	232.9
0.2600E 01	4.1	9.5	29.4	63.4	89.8	112.3	132.7	151.6	169.4	186.2	202.3	217.7	232.9	240.7
0.2700E 01	4.6	10.2	30.8	66.0	93.4	116.8	137.9	157.4	175.8	193.3	209.9	225.7	240.7	249.0
0.2800E 01	5.0	10.9	32.2	68.6	97.0	121.2	143.0	163.3	182.3	200.2	217.3	233.6	249.0	257.2
0.2900E 01	5.4	11.5	33.7	71.2	100.6	125.7	148.2	169.1	188.7	207.2	224.7	241.4	257.2	265.3
0.3000E 01	5.7	12.2	35.2	73.9	104.2	130.1	153.4	174.9	195.1	214.1	232.1	249.2	265.3	273.4
0.3100E 01	5.9	12.8	36.7	76.5	107.8	134.5	158.5	180.7	201.4	220.9	239.4	256.9	273.4	281.3
0.3200E 01	6.1	13.5	38.3	79.1	111.4	138.9	163.6	186.4	207.7	227.8	246.7	264.5	281.3	289.2
0.3300E 01	6.4	14.2	39.9	81.7	115.0	143.3	168.8	192.2	214.0	234.5	253.9	272.1	289.2	297.0
0.3400E 01	6.8	15.0	41.5	84.4	118.6	147.7	173.8	197.9	220.3	241.3	261.0	279.6	297.0	304.7
0.3500E 01	7.3	15.8	43.1	87.0	122.2	152.1	178.9	203.6	226.5	248.0	268.1	287.0	304.7	312.6

D/LAM.0	W	-20. LOG fT/	VLAM.0/W*2D= 0.400000E-01										Y= 0.	
			1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	
0.1000E 00	0.2	0.4	0.6	0.9	1.2	1.6	2.1	2.6	3.2	3.8	4.5	5.3		
0.2000E 00	0.6	1.5	2.2	3.2	4.3	5.5	6.9	8.3	9.8	11.3	12.8	14.3		
0.3000E 00	1.0	1.7	2.9	4.4	6.2	8.3	10.4	12.7	14.9	17.2	19.4	21.6		
0.4000E 00	1.2	2.4	4.3	6.8	9.6	12.6	15.7	18.7	21.7	24.7	27.6	30.5		
0.5000E 00	1.2	2.9	5.1	9.3	13.2	17.2	21.1	24.9	28.6	32.2	35.8	39.3		
0.6000E 00	1.0	3.1	7.1	11.9	16.9	21.7	26.4	31.0	35.4	39.8	44.0	48.1		
0.7000E 00	0.7	8.3	14.5	20.5	26.3	31.8	37.1	42.3	47.3	52.1	56.9	61.6		
0.8000E 00	0.5	9.5	17.1	24.2	30.9	37.2	43.3	49.1	54.8	60.3	65.6	70.9		
0.9000E 00	0.7	10.6	19.7	27.9	35.5	42.6	49.4	55.5	62.7	69.7	76.4	83.0		
0.1000E 01	1.1	11.7	22.3	31.6	40.0	48.0	55.5	62.7	69.5	77.1	84.5	91.6		
0.1100E 01	1.6	12.8	24.9	35.2	44.6	53.3	61.6	69.5	76.2	84.5	92.4	100.2		
0.1200E 01	2.0	13.9	27.4	38.9	49.2	58.7	67.6	76.2	84.5	92.4	100.2	107.7		
0.1300E 01	2.2	14.9	30.0	42.6	53.7	64.0	73.7	82.9	91.8	100.4	108.7	116.8		
0.1400E 01	2.2	16.0	32.6	46.2	58.3	69.3	79.7	89.6	99.1	108.3	117.1	125.7		
0.1500E 01	2.2	17.1	35.2	49.9	62.8	74.6	85.7	96.3	106.4	116.1	125.5	134.6		
0.1600E 01	2.2	18.3	37.8	53.6	67.3	79.9	91.7	102.9	113.6	123.9	133.8	143.4		
0.1700E 01	2.4	19.4	40.5	57.2	71.8	85.2	97.7	109.5	120.8	131.7	142.1	152.1		
0.1800E 01	2.8	20.7	43.1	60.9	76.3	90.4	103.6	116.1	128.0	139.3	150.2	160.7		
0.1900E 01	3.2	22.0	45.7	64.5	80.8	95.7	109.5	122.6	135.1	147.0	158.3	169.2		
0.2000E 01	3.7	23.4	48.3	68.1	85.3	100.9	115.4	129.1	142.1	154.5	166.3	177.6		
0.2100E 01	4.1	24.8	50.9	71.8	89.6	106.1	121.3	135.6	149.1	162.0	174.3	185.9		
0.2200E 01	4.3	26.2	53.5	75.4	94.2	111.3	127.1	142.0	156.1	169.4	182.1	194.1		
0.2300E 01	4.5	27.7	56.2	79.0	98.7	116.5	132.9	148.4	163.0	176.8	189.9	202.2		
0.2400E 01	4.7	29.2	58.8	82.6	103.1	121.6	138.7	154.7	169.8	184.1	197.5	210.2		
0.2500E 01	5.0	30.8	61.5	86.2	107.5	126.7	144.5	161.0	176.6	191.3	205.1	218.1		
0.2600E 01	5.4	32.3	64.1	89.8	111.9	131.8	150.2	167.3	183.3	198.4	212.6	225.8		
0.2700E 01	5.9	34.0	66.7	93.4	116.3	136.9	155.8	173.5	190.0	205.4	219.9	233.5		
0.2800E 01	6.4	35.6	69.4	97.0	120.7	141.9	161.5	179.6	196.6	212.4	227.2	241.0		
0.2900E 01	6.8	37.3	72.1	100.6	125.0	147.0	167.1	185.7	203.1	219.3	234.4	248.4		
0.3000E 01	7.2	39.0	74.7	104.2	129.4	152.0	172.6	191.8	209.6	226.1	241.5	255.7		
0.3100E 01	7.6	40.7	77.4	107.7	133.7	156.9	178.2	197.8	216.0	232.9	248.5	262.9		
0.3200E 01	8.0	42.4	80.1	111.3	138.0	161.9	183.7	203.7	222.3	239.5	255.4	269.9		
0.3300E 01	8.4	44.2	82.7	114.8	142.3	166.8	189.1	209.6	228.6	246.1	262.1	276.8		
0.3400E 01	8.9	46.0	85.4	118.4	146.6	171.7	194.5	215.5	234.8	252.6	268.8	283.6		
0.3500E 01	9.5	47.8	88.1	121.9	150.8	176.5	199.9	221.3	240.9	258.9	275.4	290.3		



D/LAM.0		-20. LOG /T/										VLAN.0/W**20= 0.500000E-01										Y= 0.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
W		0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

D/LAM.0	M	-20. LOG /T/	VLAM.0/W**2D= 0.600000E-01										Y=	0.
			1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90		
0.1000E 00	0.80	0.90	0.4	0.6	0.9	1.2	1.6	2.1	2.6	3.2	3.9	4.6	2.00	
0.2000E 00	0.6	1.0	1.5	2.3	3.2	4.3	5.6	6.9	8.4	9.8	11.4	12.9	5.3	
0.3000E 00	1.0	1.8	2.9	4.5	6.3	8.3	10.5	12.8	15.0	17.3	19.5	21.7	14.4	
0.4000E 00	1.2	2.5	4.4	6.9	9.8	12.8	15.8	18.8	21.8	24.8	27.7	30.5	23.3	
0.5000E 00	1.3	3.0	5.9	9.5	13.4	17.3	21.2	25.0	28.7	32.3	35.9	39.3	42.8	
0.6000E 00	1.1	3.3	7.3	12.1	17.1	21.9	26.6	31.1	35.5	39.8	44.0	48.1	52.1	
0.7000E 00	0.9	3.5	8.6	14.7	20.8	26.5	32.0	37.3	42.4	47.3	52.1	56.8	61.4	
0.8000E 00	0.8	3.4	9.9	17.4	24.5	31.1	37.4	43.4	49.1	54.7	60.1	65.4	70.5	
0.9000E 00	1.0	3.4	11.2	20.0	28.1	35.7	42.7	49.4	55.9	62.1	68.1	73.9	79.6	
0.1000E 01	1.5	3.4	12.4	22.6	31.8	40.2	48.1	55.5	62.6	69.4	76.0	82.3	88.5	
0.1100E 01	2.0	3.7	13.6	25.3	35.5	44.8	53.4	61.5	69.2	76.7	83.8	90.7	97.3	
0.1200E 01	2.5	4.2	14.8	27.9	39.2	49.3	58.7	67.5	75.9	83.9	91.5	98.9	106.0	
0.1300E 01	2.8	5.0	16.1	30.6	42.9	53.8	63.9	73.4	82.4	91.0	99.2	107.0	114.5	
0.1400E 01	2.9	5.9	17.4	33.2	46.5	58.3	69.2	79.3	88.9	98.0	106.7	115.0	122.8	
0.1500E 01	3.0	6.8	18.8	35.9	50.2	62.8	74.4	85.2	95.3	105.0	114.1	122.8	131.0	
0.1600E 01	3.2	7.6	20.2	38.5	53.8	67.3	79.6	91.0	101.7	111.9	121.4	130.5	139.1	
0.1700E 01	3.5	8.4	21.7	41.2	57.5	71.7	84.7	96.7	108.0	118.6	128.7	138.1	146.9	
0.1800E 01	4.0	9.1	23.2	43.8	61.1	76.1	89.8	102.5	114.3	125.3	135.8	145.5	154.6	
0.1900E 01	4.5	9.7	24.8	46.5	64.7	80.5	94.9	108.1	120.4	132.0	142.7	152.8	162.1	
0.2000E 01	5.1	10.6	26.5	49.2	68.3	84.9	99.9	113.7	126.5	138.5	149.6	159.9	169.5	
0.2100E 01	5.6	11.4	28.2	51.9	71.9	89.2	104.9	119.3	132.5	144.9	156.3	166.9	176.6	
0.2200E 01	6.0	12.3	29.9	54.6	75.4	93.6	109.8	124.7	138.5	151.2	162.9	173.7	183.6	
0.2300E 01	6.3	13.3	31.1	57.2	79.0	97.9	114.8	130.2	144.3	157.4	169.4	180.4	190.4	
0.2400E 01	6.8	14.4	33.5	59.9	82.6	102.1	119.6	135.5	150.1	163.5	175.8	186.9	197.1	
0.2500E 01	7.2	15.4	35.3	62.6	86.1	106.3	124.4	140.8	155.8	169.5	182.0	193.3	203.5	
0.2600E 01	7.6	16.5	37.2	65.4	89.6	110.7	129.2	146.1	161.4	175.4	188.1	199.5	209.8	
0.2700E 01	8.5	17.6	39.1	68.1	93.1	114.7	133.9	151.2	167.0	181.2	194.1	205.6	215.9	
0.2800E 01	9.1	18.7	41.0	70.8	96.6	118.9	138.6	156.3	172.4	186.9	199.9	211.5	221.8	
0.2900E 01	9.7	19.9	42.9	73.5	100.1	123.0	143.2	161.4	177.7	192.4	205.6	217.3	227.6	
0.3000E 01	10.3	21.1	44.9	76.2	103.5	127.0	147.8	166.4	183.0	197.9	211.2	222.9	233.1	
0.3100E 01	10.9	22.3	46.9	78.9	107.0	131.1	152.3	171.3	188.2	203.3	216.6	228.4	238.6	
0.3200E 01	11.5	23.5	48.9	81.7	110.4	135.1	156.8	176.1	193.3	208.5	221.9	233.7	243.8	
0.3300E 01	12.2	24.8	50.9	84.4	113.8	139.1	161.2	180.8	198.2	213.6	227.1	238.9	249.0	
0.3400E 01	12.9	26.1	52.0	87.1	117.2	143.0	165.6	185.5	203.2	218.7	232.2	243.9	253.9	
0.3500E 01	13.6	27.4	53.7	89.8	120.5	146.9	169.9	190.1	208.0	223.6	237.2	248.8	258.7	

D/LAM.0		W		-20. LOG /T/		VLAM.0/W*20=		0.700000E-01		Y=		0.	
0.1000E 00	0.2	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.2000E 00	0.6	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.6	3.2	3.9	4.6	5.3
0.3000E 00	1.0	1.0	1.5	2.3	3.2	4.3	5.6	6.9	8.4	9.9	11.4	12.9	14.4
0.4000E 00	1.0	1.8	3.0	4.5	6.3	8.4	10.6	12.8	15.0	17.3	19.5	21.7	23.9
0.5000E 00	1.3	2.5	4.5	7.0	9.8	12.8	15.9	18.9	21.9	24.8	27.7	30.6	33.4
0.6000E 00	1.2	3.4	6.0	9.6	13.5	17.4	21.3	25.0	28.7	32.4	35.9	39.4	42.7
0.7000E 00	1.0	3.6	8.8	12.2	17.1	22.0	26.7	31.2	35.6	39.8	44.0	48.1	52.0
0.8000E 00	1.0	3.7	10.1	14.9	20.9	26.6	32.0	37.3	42.4	47.3	52.0	56.7	61.2
0.9000E 00	1.2	3.7	11.4	17.5	24.6	31.2	37.4	43.4	49.1	54.7	60.0	65.2	70.2
0.1000E 01	1.7	3.8	12.7	20.2	28.3	35.7	42.8	49.4	55.8	62.0	67.9	73.6	79.1
0.1100E 01	2.2	4.2	14.0	25.5	35.6	44.8	53.4	61.4	69.0	76.3	83.3	90.0	96.4
0.1200E 01	2.7	4.8	15.3	28.1	39.3	49.4	58.6	67.3	75.6	83.4	90.9	98.0	104.8
0.1300E 01	3.0	5.1	16.6	30.8	43.0	53.9	63.8	73.2	82.0	90.4	98.3	105.9	113.0
0.1400E 01	3.2	6.6	18.0	33.5	46.6	58.3	69.0	79.0	88.4	97.2	105.6	113.5	121.0
0.1500E 01	3.4	7.6	19.5	36.1	50.3	62.8	74.2	84.8	94.7	104.0	112.8	121.1	128.8
0.1600E 01	3.6	8.5	21.1	38.6	53.9	67.2	79.3	90.4	100.9	110.7	119.8	128.4	136.4
0.1700E 01	4.0	9.3	22.7	41.5	57.5	71.6	84.3	96.1	107.0	117.2	126.7	135.6	143.8
0.1800E 01	4.6	10.2	24.3	44.2	61.1	75.9	89.3	101.6	113.1	123.7	133.5	142.6	151.0
0.1900E 01	5.2	11.0	26.1	46.9	64.7	80.3	94.3	107.1	119.0	130.0	140.1	149.4	158.0
0.2000E 01	5.8	11.7	27.8	49.6	68.3	84.6	99.2	112.6	124.9	136.2	146.6	156.1	164.7
0.2100E 01	6.3	12.9	29.6	52.3	71.8	88.8	104.0	117.9	130.6	142.2	152.9	162.6	171.3
0.2200E 01	6.8	13.9	31.5	55.0	75.4	93.0	108.8	123.2	136.3	148.2	159.0	168.9	177.7
0.2300E 01	7.3	15.0	33.3	57.7	78.9	97.2	113.6	128.4	141.8	154.0	165.1	175.0	183.8
0.2400E 01	7.8	16.2	35.2	60.4	82.4	101.4	118.3	133.5	147.3	159.7	170.9	180.9	189.8
0.2500E 01	8.3	17.4	37.2	63.2	85.9	105.5	122.9	138.5	152.6	165.3	176.6	186.7	195.5
0.2600E 01	9.0	18.6	39.1	65.9	89.3	109.6	127.5	143.5	157.9	170.7	182.2	192.3	201.1
0.2700E 01	9.7	19.8	41.1	68.6	92.8	113.6	132.0	148.4	163.0	176.0	187.6	197.7	206.4
0.2800E 01	10.4	21.0	43.1	71.3	96.2	117.6	136.5	153.2	168.1	181.2	192.8	202.9	211.6
0.2900E 01	11.1	22.3	45.2	74.1	99.6	121.6	140.8	157.9	173.0	186.3	197.9	208.0	216.6
0.3000E 01	11.8	23.6	47.2	76.8	102.9	125.5	145.2	162.5	177.8	191.2	202.9	212.9	221.5
0.3100E 01	12.5	25.0	49.3	79.5	106.3	129.3	149.4	167.1	182.6	196.1	207.7	217.7	226.1
0.3200E 01	13.2	26.3	51.4	82.2	109.6	133.2	153.6	171.5	187.2	200.8	212.4	222.3	230.6
0.3300E 01	14.0	27.7	53.5	84.9	112.9	136.9	157.8	175.9	191.7	205.3	217.0	226.8	235.0
0.3400E 01	14.8	29.1	55.6	87.7	116.2	140.7	161.9	180.2	196.1	209.8	221.4	231.1	239.2
0.3500E 01	15.6	30.6	57.8	90.4	119.5	144.4	165.9	184.4	200.4	214.1	225.7	235.3	243.2

D/LAM.0	W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	Y=	0.
0.2000E 00	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.6	3.2	1.80	1.90
0.3000E 00	0.6	0.6	1.0	1.5	2.3	3.2	4.3	5.6	7.0	8.4	9.9	3.5	4.6
0.4000E 00	1.0	1.8	3.0	4.5	6.4	9.9	12.9	15.9	18.9	21.9	24.9	11.4	13.0
0.5000E 00	1.3	2.6	4.5	7.0	9.6	13.5	17.4	21.3	25.1	28.8	32.4	19.6	23.9
0.6000E 00	1.3	3.2	6.0	9.6	12.3	17.2	22.1	26.7	31.2	35.6	39.8	27.8	30.6
0.7000E 00	1.1	3.8	8.9	15.0	20.9	26.7	32.1	37.5	43.4	49.1	54.6	35.9	39.3
0.8000E 00	1.1	3.9	10.3	17.7	24.7	31.2	35.8	42.8	49.4	55.7	61.8	44.0	48.0
0.9000E 00	1.4	4.0	11.6	20.3	28.4	35.8	40.4	48.1	55.4	62.3	68.9	59.8	64.9
0.1000E 01	1.9	4.2	13.0	23.0	32.1	40.9	49.4	58.5	67.1	75.2	82.9	75.3	81.3
0.1100E 01	2.4	4.7	14.3	25.7	35.8	44.9	53.3	61.3	68.8	76.0	82.8	82.8	89.2
0.1200E 01	2.9	5.4	15.7	28.4	39.4	49.4	58.5	67.1	75.2	82.9	90.1	90.1	97.0
0.1300E 01	3.3	6.3	17.2	31.0	43.1	53.8	63.7	72.9	81.5	89.7	97.4	104.6	111.4
0.1400E 01	3.6	7.3	18.7	33.7	46.7	58.3	68.8	78.6	87.8	96.4	104.4	112.0	119.0
0.1500E 01	3.8	8.3	20.3	36.4	50.3	62.7	73.9	84.3	93.9	102.9	111.3	119.1	126.4
0.1600E 01	4.1	9.3	21.9	39.1	54.0	67.0	78.9	89.8	99.9	109.3	118.1	126.1	133.5
0.1700E 01	4.6	10.2	23.6	41.8	57.5	71.4	83.8	95.3	105.9	115.6	124.6	132.9	140.4
0.1800E 01	5.1	11.2	25.4	44.5	61.1	75.6	88.7	100.7	111.2	121.8	131.0	139.5	147.1
0.1900E 01	5.8	12.2	27.2	47.2	64.7	79.9	93.6	106.0	117.4	127.8	137.3	145.8	153.6
0.2000E 01	6.4	13.2	29.0	50.0	68.2	84.1	98.3	111.4	123.0	133.6	143.3	152.0	159.8
0.2100E 01	7.0	14.3	30.9	52.7	71.7	88.3	103.0	116.4	128.4	139.4	149.2	158.0	165.7
0.2200E 01	7.6	15.4	32.9	55.4	75.2	92.4	107.7	121.4	133.8	144.9	154.9	163.7	171.5
0.2300E 01	8.1	16.6	34.8	58.1	78.7	96.5	112.3	126.4	139.0	150.4	160.4	169.3	177.0
0.2400E 01	8.7	17.9	36.8	60.9	82.1	100.5	116.8	131.2	144.2	155.6	165.8	174.6	182.3
0.2500E 01	9.4	19.1	38.8	63.6	85.5	104.5	121.2	136.0	149.1	160.8	171.0	179.8	187.4
0.2600E 01	10.1	20.5	40.9	66.3	88.9	108.4	125.5	140.7	154.0	165.8	176.0	184.8	192.3
0.2700E 01	10.9	21.8	42.9	69.1	92.3	112.3	129.8	145.2	158.8	170.6	180.9	189.6	197.0
0.2800E 01	11.7	23.1	45.0	71.8	95.6	116.2	134.1	149.7	163.4	175.3	185.6	194.3	201.6
0.2900E 01	12.4	24.5	47.1	74.5	98.9	119.9	138.2	154.1	168.0	179.9	190.1	198.7	205.9
0.3000E 01	13.2	25.9	49.2	77.2	102.2	123.7	142.3	158.4	172.4	184.3	194.5	203.0	210.1
0.3100E 01	14.0	27.4	51.4	79.9	105.4	127.4	146.3	162.6	176.7	188.6	198.7	207.2	214.1
0.3200E 01	14.8	28.9	53.5	82.6	108.7	131.0	150.2	166.7	180.8	192.8	202.8	211.1	217.9
0.3300E 01	15.7	30.3	55.7	85.3	111.9	134.6	154.0	170.7	184.9	196.9	206.8	215.0	221.6
0.3400E 01	16.6	31.9	57.8	88.0	115.0	138.1	157.8	174.6	188.8	200.8	210.6	218.7	225.1
0.3500E 01	17.5	33.4	60.0	90.7	118.1	141.6	161.5	178.4	192.7	204.6	214.3	222.2	228.5

U/LAM.O		VLAM.O/4**2D= 0.900000E-01										Y= 0.	
		-20. LGD /T/											
W		0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90
0.1000E 00		0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.7	3.3	3.9	4.6
0.2000E 00		0.6	1.0	1.6	2.3	3.3	4.4	5.6	7.0	8.5	9.9	11.5	13.0
0.3000E 00		1.0	1.8	3.0	4.6	6.4	8.5	10.6	12.9	15.1	17.4	19.6	21.8
0.4000E 00		1.3	2.8	4.6	7.1	9.9	12.9	16.0	19.0	22.0	24.9	27.8	30.6
0.5000E 00		1.4	3.2	6.1	9.7	13.6	17.5	21.4	25.1	28.8	32.4	35.9	39.3
0.6000E 00		1.3	3.6	7.6	12.4	17.3	22.1	26.8	31.3	35.6	39.8	43.9	47.9
0.7000E 00		1.2	3.9	9.1	15.1	21.0	26.7	32.2	37.4	42.4	47.2	51.8	56.4
0.8000E 00		1.2	4.1	10.5	17.8	24.8	31.3	37.5	43.4	49.0	54.4	59.6	64.6
0.9000E 00		1.5	4.3	11.9	20.5	28.5	35.9	42.8	49.4	55.6	61.6	67.3	72.8
0.1000E 01		2.0	4.6	13.3	23.2	32.2	40.4	48.1	55.3	62.1	68.6	74.8	80.7
0.2000E 01		2.6	5.2	14.7	25.9	35.9	44.9	53.3	61.1	68.5	75.5	82.1	88.4
0.3000E 01		3.2	6.0	16.2	28.6	39.5	49.4	58.4	66.9	74.8	82.3	89.3	95.9
0.4000E 01		3.6	6.9	17.7	31.3	43.2	53.8	63.5	72.6	81.0	88.9	96.3	102.1
0.5000E 01		3.9	8.0	19.3	34.0	46.8	58.2	68.6	78.2	87.1	95.4	103.1	110.2
0.6000E 01		4.2	9.0	20.9	36.7	50.4	62.5	73.5	83.7	93.0	101.7	109.7	117.1
0.7000E 01		4.6	10.1	22.7	39.4	54.0	66.8	78.4	89.1	98.9	107.9	116.1	123.6
0.8000E 01		5.1	11.1	24.5	42.1	57.5	71.1	83.3	94.4	104.6	113.9	122.3	130.0
0.9000E 01		5.7	12.2	26.3	44.8	61.1	75.3	88.1	99.6	110.1	119.7	128.4	136.1
0.1000E 02		6.4	13.2	28.2	47.6	64.6	79.5	92.7	104.7	115.6	125.4	134.2	142.0
0.2000E 02		7.1	14.4	30.2	50.3	68.1	83.6	97.4	109.8	120.9	130.9	139.8	147.7
0.3000E 02		7.7	15.6	32.1	53.0	71.5	87.6	101.9	114.7	126.1	136.3	145.3	153.2
0.4000E 02		8.4	16.8	34.1	55.8	75.0	91.6	106.4	119.5	131.1	141.5	150.5	158.4
0.5000E 02		9.0	18.1	36.2	58.5	78.4	95.6	110.8	124.2	136.0	146.5	155.6	163.5
0.6000E 02		9.7	19.4	38.2	61.2	81.7	99.5	115.1	128.8	140.8	151.4	160.5	168.3
0.7000E 02		10.4	20.8	40.3	64.0	85.1	103.3	119.3	133.3	145.5	156.1	165.2	172.9
0.8000E 02		11.2	22.2	42.4	66.7	88.4	107.1	123.4	137.6	150.0	160.6	169.7	177.4
0.9000E 02		12.0	23.6	44.5	69.4	91.7	110.9	127.5	141.9	154.4	165.0	174.1	181.6
0.1000E 03		13.7	25.1	46.6	72.1	94.9	114.5	131.5	146.1	158.6	169.3	178.3	185.7
0.2000E 03		14.6	26.5	48.6	74.8	98.1	118.1	135.3	150.1	162.7	173.4	182.3	189.6
0.3000E 03		15.5	29.6	50.9	77.5	101.3	121.7	139.2	154.1	166.7	177.3	186.2	193.4
0.4000E 03		16.4	31.1	53.1	80.2	104.4	125.2	142.9	157.9	170.6	181.2	189.9	196.9
0.5000E 03		17.3	32.7	55.3	82.9	107.6	128.6	146.5	161.7	174.3	184.9	193.5	200.4
0.6000E 03		18.3	34.3	57.5	85.5	110.6	132.0	150.1	165.3	178.0	188.4	196.9	203.7
0.7000E 03		19.2	35.9	59.7	88.2	113.6	135.3	153.6	168.8	181.5	191.9	200.2	206.8
0.8000E 03				61.9	90.8	116.6	138.6	156.9	172.3	184.9	195.2	203.4	209.9
0.9000E 03													

D/LAM.0	W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.7	3.3	3.9	4.7	5.4	
0.2000E 00	0.6	1.0	1.6	2.3	3.3	4.4	5.7	7.0	8.5	10.0	11.5	13.0	14.5	
0.3000E 00	1.0	1.9	3.0	4.6	6.4	8.5	10.7	12.9	15.2	17.4	19.6	21.8	24.0	
0.4000E 00	1.3	2.6	4.6	7.1	10.0	13.0	16.0	19.0	22.0	24.9	27.8	30.6	33.4	
0.5000E 00	1.4	3.3	6.2	9.8	13.7	17.6	21.4	25.2	28.8	32.4	35.9	39.3	42.6	
0.6000E 00	1.4	3.7	7.7	12.5	17.4	22.2	26.8	31.3	35.6	39.8	43.9	47.8	51.6	
0.7000E 00	1.3	4.1	9.2	15.2	21.1	26.8	32.2	37.4	42.3	47.1	51.7	56.2	60.4	
0.8000E 00	1.3	4.3	10.7	17.9	24.9	31.4	37.5	43.4	48.9	54.3	59.4	64.3	69.0	
0.9000E 00	1.7	4.6	12.1	20.6	28.6	35.9	42.8	49.3	55.5	61.3	66.9	72.2	77.3	
0.1000E 01	2.2	5.0	13.6	23.3	32.3	40.4	48.0	55.1	61.9	68.2	74.3	80.0	85.3	
0.1100E 01	2.9	5.6	15.0	26.0	35.9	44.9	53.2	60.9	68.2	75.0	81.4	87.4	93.1	
0.1200E 01	3.4	6.5	16.6	28.6	39.6	49.3	58.3	66.6	74.3	81.6	88.3	94.7	100.5	
0.1300E 01	3.9	7.5	18.2	31.5	43.2	53.7	63.3	72.1	80.4	88.0	95.1	101.6	107.7	
0.1400E 01	4.2	8.6	19.7	34.2	46.8	58.0	68.2	77.6	86.3	94.3	101.5	108.4	114.5	
0.1500E 01	4.6	9.8	21.6	36.9	50.4	62.3	73.1	83.0	92.0	100.4	107.9	114.8	121.1	
0.1600E 01	5.0	10.9	23.4	39.6	54.0	66.6	77.9	88.3	97.7	106.3	114.0	121.0	127.3	
0.1700E 01	5.6	12.0	25.3	42.4	57.5	70.8	82.6	93.4	103.2	112.0	119.9	127.0	133.3	
0.1800E 01	6.3	13.1	27.2	45.1	61.0	74.9	87.3	98.4	108.5	117.5	125.6	132.7	138.9	
0.1900E 01	7.0	14.3	29.2	47.9	64.5	79.0	91.8	103.4	113.7	122.9	131.0	138.1	144.3	
0.2000E 01	7.7	15.5	31.2	50.6	67.9	83.0	96.3	108.2	118.7	128.0	136.2	143.4	149.5	
0.2100E 01	8.5	16.8	33.2	53.3	71.3	86.9	100.7	112.8	123.6	133.0	141.3	148.3	154.4	
0.2200E 01	9.1	18.1	35.3	56.1	74.7	90.8	104.9	117.4	128.9	137.8	146.1	153.1	159.0	
0.2300E 01	9.9	19.5	37.3	58.8	78.0	94.6	109.1	121.8	132.9	142.5	150.7	157.7	163.5	
0.2400E 01	10.6	20.9	39.4	61.5	81.3	98.4	113.2	126.2	137.3	147.0	155.1	162.0	167.7	
0.2500E 01	11.4	22.3	41.6	64.2	84.6	102.1	117.2	130.4	141.6	151.3	159.4	166.1	171.7	
0.2600E 01	12.3	23.8	43.7	66.9	87.8	105.7	121.2	134.4	145.8	155.4	163.4	170.1	175.5	
0.2700E 01	13.2	25.3	45.9	69.6	91.0	109.3	125.0	138.4	149.8	159.4	167.3	173.8	179.1	
0.2800E 01	14.1	26.8	48.0	72.3	94.1	112.8	128.7	142.2	153.7	163.2	171.1	177.4	182.5	
0.2900E 01	15.0	28.4	50.2	75.0	97.2	116.2	132.3	146.0	157.4	166.9	174.6	180.8	185.8	
0.3000E 01	15.9	30.0	52.4	77.7	100.3	119.6	135.9	149.6	161.0	170.4	178.0	184.1	188.9	
0.3100E 01	16.9	31.6	54.6	80.3	103.3	122.9	139.3	153.1	164.5	173.8	181.3	187.2	191.8	
0.3200E 01	17.8	33.2	56.8	82.9	106.3	126.1	142.7	156.5	167.9	177.1	184.4	190.2	194.6	
0.3300E 01	18.8	34.8	59.0	85.5	109.2	129.2	146.0	159.8	171.1	180.2	187.4	193.0	197.3	
0.3400E 01	19.9	36.5	61.2	88.1	112.1	132.3	149.2	163.0	174.2	183.2	190.3	195.7	199.9	
0.3500E 01	20.9	38.2	63.4	90.7	115.0	135.4	152.3	166.1	177.2	186.1	193.0	198.3	202.3	

D/LAM.0		-20. LGG /Y/										VLAM.0/W**2D= 0.200000E 00										Y= 0.	
h		0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00									
0.1000E 00	0.2	0.3	0.5	0.7	1.0	1.3	1.7	2.2	2.8	3.4	4.1	4.8	5.6										
0.2000E 00	0.6	1.1	1.7	2.5	3.5	4.6	5.9	7.3	8.7	10.2	11.7	13.2	14.7										
0.3000E 00	1.2	2.0	3.3	4.9	6.6	8.9	11.0	13.3	15.5	17.7	19.8	21.9	24.0										
0.4000E 00	1.6	3.0	5.1	7.6	10.5	13.4	16.4	19.4	22.2	25.0	27.7	30.3	32.8										
0.5000E 00	1.8	3.9	6.9	10.5	14.3	18.1	21.8	25.4	28.8	32.1	35.3	38.3	41.1										
0.6000E 00	2.0	4.7	8.7	13.3	18.0	22.6	27.0	31.2	35.2	38.9	42.4	45.7	48.8										
0.7000E 00	2.2	5.4	10.4	16.2	21.8	27.1	32.2	36.9	41.3	45.4	49.2	52.7	55.9										
0.8000E 00	2.6	6.1	12.2	19.0	25.5	31.5	37.1	42.3	47.1	51.5	55.5	59.1	62.4										
0.9000E 00	3.2	7.0	14.0	21.8	29.1	35.8	41.9	47.5	52.6	57.2	61.4	65.0	68.3										
0.1000E 01	4.0	8.1	15.9	24.6	32.6	39.9	46.5	52.5	57.8	62.6	66.8	70.5	73.6										
0.1100E 01	4.8	9.3	17.9	27.4	36.1	43.9	50.9	57.2	62.7	67.6	71.8	75.4	78.5										
0.1200E 01	5.7	10.7	19.9	30.1	39.5	47.8	55.2	61.7	67.3	72.2	76.4	79.9	82.9										
0.1300E 01	6.5	12.2	21.9	32.8	42.8	51.6	59.2	65.9	71.6	76.5	80.6	84.0	86.8										
0.1400E 01	7.3	13.7	24.1	35.6	46.0	55.2	63.1	69.9	75.6	80.5	84.5	87.8	90.4										
0.1500E 01	8.1	15.3	26.2	38.3	49.2	58.6	66.1	73.6	79.4	84.1	88.0	91.1	93.6										
0.1600E 01	9.1	16.9	28.4	40.9	52.2	62.0	70.2	77.1	82.9	87.5	91.3	94.2	96.5										
0.1700E 01	10.1	18.5	30.6	43.5	55.2	65.1	73.5	80.4	86.1	90.7	94.3	97.1	99.2										
0.1800E 01	11.1	20.1	32.7	46.1	58.1	68.2	76.6	83.5	89.1	93.5	97.0	99.6	101.6										
0.1900E 01	12.3	21.8	34.9	48.6	60.8	71.1	79.6	86.4	91.9	96.2	99.5	102.0	103.8										
0.2000E 01	13.4	23.5	37.1	51.1	63.5	73.9	82.4	89.2	94.5	98.6	101.8	104.1	105.8										
0.2100E 01	14.5	25.2	39.2	53.6	66.1	76.6	85.0	91.7	96.9	100.9	103.9	106.1	107.7										
0.2200E 01	15.7	27.0	41.4	55.9	68.6	79.1	87.5	94.1	99.1	103.0	105.8	107.9	109.3										
0.2300E 01	16.9	28.7	43.5	58.3	71.0	81.5	89.8	96.3	101.2	104.9	107.6	109.5	110.9										
0.2400E 01	18.1	30.4	45.6	60.5	73.4	83.8	92.0	98.4	103.1	106.7	109.2	111.1	112.3										
0.2500E 01	19.4	32.2	47.7	62.7	75.6	86.0	94.1	100.3	104.9	108.3	110.8	112.5	113.6										
0.2600E 01	20.6	33.9	49.7	64.9	77.8	88.1	96.1	102.1	106.6	109.9	112.2	113.8	114.9										
0.2700E 01	21.9	35.7	51.7	67.0	79.8	90.1	97.9	103.8	108.2	111.3	113.5	115.0	116.0										
0.2800E 01	23.2	37.4	53.7	69.0	81.8	91.9	99.7	105.4	109.6	112.6	114.7	116.1	117.0										
0.2900E 01	24.5	39.2	55.6	71.0	83.7	93.7	101.3	106.9	110.9	113.8	115.8	117.1	118.0										
0.3000E 01	25.8	40.9	57.5	72.9	85.6	95.4	102.9	108.3	112.2	115.0	116.8	118.1	118.9										
0.3100E 01	27.2	42.6	59.4	74.8	87.3	97.1	104.3	109.6	113.4	116.0	117.8	119.0	119.7										
0.3200E 01	28.5	44.3	61.2	76.6	89.0	98.6	105.7	110.8	114.5	117.0	118.7	119.8	120.5										
0.3300E 01	29.8	45.9	63.0	78.3	90.6	100.1	107.0	112.0	115.5	117.9	119.5	120.6	121.2										
0.3400E 01	31.2	47.6	64.8	80.0	92.2	101.5	108.2	113.1	116.5	118.8	120.3	121.3	121.9										
0.3500E 02	32.5	49.2	66.5	81.6	93.7	102.8	109.4	114.1	117.4	119.6	121.1	122.0	122.6										

D/LAM.0	W	0.60	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.5	0.7	0.8	1.0	1.4	1.8	2.3	2.9	3.6	4.2	5.0	5.8
0.2000E 00	0.7	1.1	1.8	2.6	3.5	3.6	4.8	6.1	7.5	9.0	10.4	11.9	13.4	14.8
0.3000E 00	1.3	2.2	3.5	5.2	7.1	7.1	9.2	11.3	13.5	15.6	17.7	19.8	21.7	23.5
0.4000E 00	1.8	3.3	5.5	8.0	10.9	10.9	13.8	16.6	19.4	22.1	24.7	27.1	29.4	31.6
0.5000E 00	2.2	4.4	7.5	11.0	14.7	14.7	18.3	21.8	25.1	28.3	31.2	33.9	36.4	38.6
0.6000E 00	2.6	5.4	9.4	13.9	18.4	18.4	22.7	26.8	30.5	34.0	37.1	40.0	42.5	44.7
0.7000E 00	3.0	6.5	11.4	16.8	22.0	22.0	26.9	31.4	35.5	39.2	42.5	45.4	47.9	50.0
0.8000E 00	3.7	7.6	13.4	19.6	25.5	25.5	30.9	35.8	40.2	44.0	47.3	50.1	52.6	54.6
0.9000E 00	4.5	8.9	15.4	22.4	28.9	28.9	34.7	39.9	44.4	48.3	51.6	54.3	56.6	58.5
0.1000E 01	5.5	10.3	17.5	25.1	32.1	32.1	38.3	43.7	48.3	52.2	55.4	58.0	60.2	61.9
0.1100E 01	6.6	11.9	19.6	27.8	35.2	35.2	41.7	47.2	51.8	55.6	58.8	61.3	63.2	64.8
0.1200E 01	7.6	13.5	21.8	30.4	38.2	38.2	44.8	50.4	55.0	58.8	61.8	64.1	65.9	67.3
0.1300E 01	8.7	15.2	23.9	32.9	41.0	41.0	47.8	53.4	57.9	61.6	64.4	66.6	68.2	69.5
0.1400E 01	9.8	16.9	26.1	35.4	43.6	43.6	50.5	56.1	60.6	64.1	66.8	68.8	70.3	71.4
0.1500E 01	10.9	18.6	28.2	37.8	46.1	46.1	53.0	58.6	62.9	66.3	68.8	70.7	72.1	73.0
0.1600E 01	12.1	20.4	30.3	40.1	48.5	48.5	55.4	60.9	65.1	68.3	70.7	72.4	73.7	74.5
0.1700E 01	13.4	22.1	32.4	42.3	50.8	50.8	57.6	63.0	67.0	70.1	72.3	73.9	75.1	75.8
0.1800E 01	14.7	23.8	34.4	44.4	52.9	52.9	59.6	64.9	68.8	71.7	73.8	75.3	76.3	77.0
0.1900E 01	16.0	25.5	36.3	46.4	54.9	54.9	61.5	66.6	70.4	73.2	75.1	76.5	77.4	78.0
0.2000E 01	17.3	27.3	38.2	48.4	56.7	56.7	63.3	68.2	71.8	74.5	76.3	77.6	78.4	79.0
0.2100E 01	18.6	28.9	40.1	50.2	58.5	58.5	64.9	69.7	73.2	75.6	77.4	78.6	79.3	79.8
0.2200E 01	19.9	30.6	41.9	52.0	60.2	60.2	66.4	71.0	74.4	76.7	78.3	79.4	80.1	80.6
0.2300E 01	21.3	32.3	43.6	53.7	61.7	61.7	67.8	72.3	75.4	77.7	79.2	80.2	80.9	81.3
0.2400E 01	22.6	33.9	45.3	55.3	63.2	63.2	69.1	73.4	76.4	78.6	80.0	80.9	81.5	81.9
0.2500E 01	23.9	35.5	46.9	56.8	64.5	64.5	70.3	74.4	77.3	79.3	80.7	81.6	82.1	82.5
0.2600E 01	25.3	37.0	48.5	58.3	65.8	65.8	71.4	75.4	78.2	80.1	81.3	82.2	82.7	83.0
0.2700E 01	26.6	38.5	50.0	59.6	67.0	67.0	72.5	76.3	78.9	80.7	81.9	82.7	83.2	83.5
0.2800E 01	27.9	40.0	51.5	60.9	68.2	68.2	73.4	77.1	79.6	81.4	82.5	83.2	83.6	83.9
0.2900E 01	29.2	41.4	52.9	62.2	69.2	69.2	74.3	77.9	80.3	81.9	83.0	83.7	84.1	84.3
0.3000E 01	30.5	42.8	54.2	63.4	70.2	70.2	75.2	78.6	80.9	82.4	83.4	84.1	84.4	84.7
0.3100E 01	31.7	44.2	55.5	64.5	71.2	71.2	75.9	79.0	81.4	82.9	83.8	84.4	84.8	85.0
0.3200E 01	33.0	45.5	56.7	65.6	72.1	72.1	76.7	79.8	81.9	83.3	84.2	84.6	85.1	85.3
0.3300E 01	34.2	46.8	57.9	66.6	72.9	72.9	77.3	80.4	82.4	83.7	84.6	85.1	85.4	85.6
0.3400E 01	35.4	48.1	59.0	67.5	73.7	73.7	78.0	80.9	82.8	84.1	84.9	85.4	85.7	85.9
0.3500E 01	36.6	49.3	60.1	68.4	74.4	74.4	78.6	81.4	83.2	84.5	85.2	85.7	86.0	86.1

Y= 0.

VLAN.0/W#20= 0.300000E 00

-20. LOG /T/



D/LAM.0	W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.7	0.3	0.5	0.8	1.1	1.4	1.9	2.4	3.0	3.7	4.4	5.1	5.9
0.2000E 00	0.7	1.2	1.2	1.9	2.8	3.8	5.0	6.3	7.7	9.1	10.6	12.0	13.4	14.8
0.3000E 00	1.4	2.4	3.6	3.8	5.4	7.4	9.4	11.5	13.5	15.6	17.6	19.5	21.3	22.9
0.4000E 00	2.0	4.9	4.9	7.9	11.4	14.9	18.4	21.6	24.6	27.4	29.8	32.1	34.0	35.7
0.5000E 00	2.6	7.9	7.9	10.1	14.3	18.6	22.5	26.1	29.4	32.3	34.8	37.0	38.9	40.5
0.6000E 00	3.2	10.1	10.1	12.1	17.2	22.0	26.4	30.3	33.7	36.6	39.1	41.2	42.9	44.3
0.7000E 00	3.8	12.1	12.1	14.2	19.9	25.2	29.9	34.0	37.4	40.4	42.8	44.7	46.3	47.5
0.8000E 00	4.6	14.2	14.2	16.3	22.5	28.2	33.1	37.3	40.8	43.5	45.9	47.7	49.0	50.1
0.9000E 00	5.6	16.3	16.3	18.4	25.1	31.0	36.1	40.3	43.7	46.4	48.5	50.1	51.4	52.3
0.1000E 01	6.8	18.4	18.4	20.5	27.5	33.6	38.8	42.9	46.2	48.8	50.8	52.2	53.3	54.1
0.1100E 01	8.0	20.5	20.5	22.7	29.8	36.1	41.2	45.3	48.5	50.9	52.7	54.0	55.0	55.6
0.1200E 01	9.2	22.7	22.7	24.7	32.1	38.3	43.4	47.4	50.4	52.7	54.3	55.5	56.4	56.9
0.1300E 01	10.5	24.7	24.7	26.7	34.1	40.4	45.4	49.2	52.1	54.2	55.8	56.8	57.6	58.1
0.1400E 01	11.7	26.7	26.7	28.6	36.1	42.3	47.2	50.9	53.6	55.6	57.0	58.0	58.6	59.0
0.1500E 01	13.0	28.6	28.6	30.4	38.0	44.1	48.8	52.4	54.9	56.8	58.1	58.9	59.5	59.9
0.1600E 01	14.3	30.4	30.4	32.2	39.7	45.7	50.3	53.7	56.1	57.8	59.1	59.8	60.3	60.6
0.1700E 01	15.6	32.2	32.2	33.9	41.3	47.2	51.6	54.8	57.1	58.7	59.8	60.5	61.0	61.3
0.1800E 01	17.0	33.9	33.9	35.5	42.8	48.6	52.8	55.9	58.0	59.5	60.5	61.2	61.6	61.8
0.1900E 01	18.3	35.5	35.5	37.1	44.3	49.8	53.9	56.8	58.9	60.2	61.1	61.7	62.1	62.3
0.2000E 01	19.6	37.1	37.1	38.5	45.6	51.0	54.9	57.7	59.6	60.9	61.7	62.3	62.6	62.8
0.2100E 01	20.9	38.5	38.5	39.9	46.8	52.1	55.8	58.4	60.2	61.4	62.2	62.7	63.0	63.2
0.2200E 01	22.2	39.9	39.9	41.2	48.0	53.0	56.6	59.1	60.8	61.9	62.7	63.1	63.4	63.5
0.2300E 01	23.5	41.2	41.2	42.5	49.1	53.9	57.4	59.7	61.3	62.4	63.1	63.5	63.7	63.9
0.2400E 01	24.7	42.5	42.5	43.6	50.1	54.8	58.1	60.3	61.8	62.8	63.4	63.6	64.0	64.2
0.2500E 01	26.0	43.6	43.6	44.7	51.0	55.5	58.7	60.8	62.2	63.1	63.7	64.1	64.3	64.4
0.2600E 01	27.2	44.7	44.7	45.8	51.9	56.2	59.2	61.3	62.6	63.5	64.0	64.4	64.6	64.7
0.2700E 01	28.4	45.8	45.8	46.8	52.7	56.9	59.8	61.7	63.0	63.8	64.3	64.6	64.8	64.9
0.2800E 01	29.5	46.8	46.8	47.7	53.5	57.5	59.9	62.1	63.3	64.1	64.5	64.8	65.0	65.1
0.2900E 01	30.6	47.7	47.7	48.6	54.2	58.1	60.3	62.4	63.6	64.3	64.8	65.0	65.2	65.3
0.3000E 01	31.7	48.6	48.6	49.5	54.9	58.6	61.1	62.8	63.8	64.5	65.0	65.2	65.4	65.4
0.3100E 01	32.8	49.5	49.5	50.3	55.5	59.1	61.5	63.1	64.1	64.7	65.2	65.4	65.5	65.6
0.3200E 01	33.8	50.3	50.3	51.0	56.1	59.5	61.8	63.3	64.3	64.9	65.3	65.6	65.7	65.7
0.3300E 01	34.8	51.0	51.0	51.7	56.6	60.0	62.2	63.6	64.5	65.1	65.5	65.7	65.8	65.9
0.3400E 01	35.8	51.7	51.7	52.4	57.1	60.4	62.5	63.8	64.7	65.3	65.6	65.8	65.9	66.0
0.3500E 01	36.7	52.4	52.4	53.1	57.1	60.4	62.5	63.8	64.7	65.3	65.6	65.8	65.9	66.0

Y= 0.

VLAM.0/W\*\*2D= 0.400000E 00

-20. LOG /T/

D/LAM.0	W	0.90	0.90	-20. LOG /T/	VLAM.0/W**2D= 0.500000E 00										Y= 0.	
					1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90		
0.1000E 00	0.2	0.4	0.5	0.8	1.1	1.5	2.0	2.5	3.1	3.8	4.5	5.2	6.0	6.8		
0.2000E 00	0.8	1.3	2.0	2.9	3.9	5.2	6.5	7.8	9.2	10.6	12.0	13.4	14.6	15.8		
0.3000E 00	1.5	2.6	4.0	5.7	7.6	9.6	11.6	13.6	15.6	17.4	19.1	20.7	22.1	23.4		
0.4000E 00	2.2	3.9	6.1	8.7	11.4	14.1	16.6	19.0	21.3	23.3	25.1	26.7	28.1	29.4		
0.5000E 00	2.9	5.3	8.3	11.7	15.0	18.2	21.2	23.9	26.2	28.3	30.1	31.6	32.8	34.0		
0.6000E 00	3.6	6.7	10.5	14.6	18.5	22.1	25.2	28.0	30.4	32.4	34.0	35.4	36.5	37.6		
0.7000E 00	4.4	8.1	12.7	17.3	21.6	25.5	28.8	31.6	33.9	35.7	37.2	38.4	39.3	40.3		
0.8000E 00	5.4	9.6	14.8	19.9	24.5	28.5	31.9	34.6	36.8	38.5	39.8	40.8	41.6	42.4		
0.9000E 00	6.6	11.2	16.8	22.3	27.2	31.2	34.5	37.1	39.2	40.7	41.9	42.8	43.4	44.0		
0.1000E 01	7.9	12.9	18.9	24.6	29.6	33.6	36.8	39.3	41.2	42.9	43.6	44.3	44.8	45.3		
0.1100E 01	9.2	14.6	20.9	26.8	31.7	35.7	38.8	41.1	42.9	44.3	45.0	45.6	46.1	46.5		
0.1200E 01	10.5	16.4	22.8	28.7	33.7	37.6	40.5	42.7	44.3	45.5	46.2	46.7	47.1	47.5		
0.1300E 01	11.8	18.0	24.7	30.6	35.4	39.2	42.0	44.0	45.5	46.5	47.2	47.6	47.9	48.2		
0.1400E 01	13.1	19.7	26.4	32.3	37.0	40.6	43.3	45.1	46.5	47.4	48.0	48.4	48.6	48.8		
0.1500E 01	14.4	21.2	28.0	33.9	38.5	41.9	44.4	46.1	47.3	48.1	48.7	49.0	49.2	49.4		
0.1600E 01	15.7	22.8	29.6	35.3	39.7	43.0	45.3	46.9	48.1	48.8	49.3	49.6	49.8	49.9		
0.1700E 01	17.0	24.2	31.0	36.6	40.9	44.0	46.2	47.7	48.7	49.4	49.8	50.1	50.2	50.3		
0.1800E 01	18.3	25.7	32.4	37.8	41.9	44.9	46.9	48.3	49.2	49.8	50.2	50.5	50.6	50.7		
0.1900E 01	19.6	27.0	33.7	39.0	42.9	45.7	47.6	48.9	49.7	50.3	50.6	50.8	50.9	51.0		
0.2000E 01	20.8	28.3	34.9	40.0	43.7	46.3	48.1	49.3	50.1	50.6	51.0	51.1	51.2	51.3		
0.2100E 01	22.0	29.5	36.0	40.9	44.5	47.0	48.7	49.8	50.5	51.0	51.3	51.4	51.5	51.6		
0.2200E 01	23.1	30.7	37.0	41.8	45.2	47.5	49.1	50.2	50.8	51.1	51.5	51.7	51.8	51.9		
0.2300E 01	24.3	31.8	38.0	42.6	45.8	48.0	49.5	50.5	51.1	51.4	51.8	52.0	52.1	52.2		
0.2400E 01	25.4	32.8	38.9	43.3	46.4	48.5	49.9	50.8	51.4	51.7	52.0	52.1	52.2	52.3		
0.2500E 01	26.4	33.8	39.7	44.0	46.9	48.9	50.2	51.1	51.6	51.8	52.2	52.3	52.4	52.5		
0.2600E 01	27.4	34.8	40.5	44.6	47.4	49.3	50.5	51.3	51.8	52.0	52.3	52.4	52.5	52.6		
0.2700E 01	28.4	35.6	41.2	45.1	47.8	49.6	50.8	51.5	51.9	52.2	52.3	52.4	52.5	52.6		
0.2800E 01	29.4	36.5	41.9	45.7	48.2	49.9	51.0	51.7	52.0	52.2	52.3	52.4	52.5	52.6		
0.2900E 01	30.3	37.3	42.5	46.2	48.6	50.2	51.2	51.9	52.3	52.4	52.5	52.6	52.7	52.8		
0.3000E 01	31.2	38.0	43.1	46.5	48.9	50.5	51.4	52.1	52.5	52.6	52.7	52.8	52.9	53.0		
0.3100E 01	32.0	38.7	43.7	47.0	49.5	50.7	51.6	52.2	52.6	52.7	52.8	52.9	53.0	53.1		
0.3200E 01	32.8	39.4	44.2	47.4	49.5	50.9	51.8	52.4	52.8	52.9	53.0	53.1	53.2	53.3		
0.3300E 01	33.6	40.0	44.7	47.8	49.8	51.1	51.9	52.5	52.9	53.0	53.1	53.2	53.3	53.4		
0.3400E 01	34.3	40.6	45.1	48.1	50.0	51.3	52.1	52.6	52.9	53.0	53.1	53.2	53.3	53.4		
0.3500E 01	35.0	41.2	45.5	48.4	50.3	51.5	52.2	52.7	53.0	53.1	53.2	53.3	53.4	53.5		



D/LAM.0	W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	Y=	0.	1.80	1.90	2.00
0.1000E 00		0.2	0.4	0.6	0.9	1.2	1.6	2.1	2.7	3.3	4.0	4.7		5.4	6.2	7.0
0.2000E 00		0.9	1.4	2.2	3.1	4.2	5.4	6.7	8.0	9.4	10.6	11.9		13.0	14.1	15.2
0.3000E 00		1.7	2.9	4.3	6.0	7.9	9.8	11.7	13.5	15.1	16.6	18.0		19.2	20.2	21.2
0.4000E 00		2.6	4.4	6.6	9.1	11.6	14.0	16.2	18.1	19.9	21.4	22.6		23.7	24.6	25.5
0.5000E 00		3.5	6.0	8.9	12.0	14.9	17.6	20.0	22.0	23.6	25.0	26.1		27.0	27.7	28.4
0.6000E 00		4.5	7.5	11.1	14.6	17.9	20.7	23.1	25.0	26.5	27.7	28.7		29.4	29.9	30.4
0.7000E 00		5.5	9.1	13.2	17.0	20.5	23.3	25.6	27.4	28.8	29.8	30.6		31.1	31.5	31.9
0.8000E 00		6.7	10.7	15.1	19.2	22.7	25.5	27.6	29.3	30.5	31.4	32.0		32.5	32.8	33.1
0.9000E 00		8.0	12.4	17.0	21.2	24.6	27.3	29.3	30.8	31.9	32.6	33.2		33.5	33.8	34.0
0.1000E 01		9.4	14.0	18.7	22.9	26.2	28.8	30.7	32.0	33.0	33.6	34.1		34.3	34.5	34.7
0.1100E 01		10.7	15.6	20.4	24.5	27.7	30.0	31.8	33.0	33.8	34.4	34.8		35.0	35.1	35.2
0.1200E 01		12.0	17.1	21.9	25.9	28.9	31.1	32.7	33.8	34.5	35.0	35.3		35.5	35.6	35.7
0.1300E 01		13.3	18.5	23.2	27.1	30.0	32.0	33.4	34.4	35.1	35.5	35.8		36.0	36.1	36.2
0.1400E 01		14.5	19.8	24.5	28.2	30.9	32.8	34.1	35.0	35.6	35.9	36.2		36.3	36.4	36.5
0.1500E 01		15.7	21.0	25.6	29.1	31.7	33.4	34.6	35.4	36.0	36.3	36.5		36.6	36.7	36.8
0.1600E 01		16.9	22.2	26.6	30.0	32.4	34.0	35.1	35.8	36.3	36.6	36.8		36.9	37.0	37.1
0.1700E 01		18.0	23.3	27.6	30.7	33.0	34.5	35.5	36.1	36.6	36.8	37.0		37.1	37.1	37.2
0.1800E 01		19.0	24.3	28.4	31.4	33.5	34.9	35.8	36.4	36.8	37.0	37.2		37.3	37.3	37.4
0.1900E 01		20.0	25.2	29.2	32.0	34.0	35.3	36.1	36.7	37.0	37.2	37.4		37.5	37.5	37.6
0.2000E 01		21.0	26.0	29.9	32.6	34.4	35.6	36.4	36.9	37.2	37.4	37.5		37.6	37.6	37.7
0.2100E 01		21.9	26.8	30.5	33.0	34.7	35.9	36.6	37.1	37.4	37.5	37.6		37.7	37.7	37.8
0.2200E 01		22.7	27.5	31.1	33.5	35.1	36.1	36.8	37.2	37.5	37.7	37.8		37.9	37.9	38.0
0.2300E 01		23.5	28.2	31.6	33.9	35.4	36.3	37.0	37.4	37.7	37.8	37.9		38.0	38.0	38.1
0.2400E 01		24.3	28.8	32.1	34.2	35.6	36.5	37.1	37.5	37.7	37.9	38.0		38.1	38.1	38.2
0.2500E 01		25.0	29.4	32.5	34.5	35.9	36.7	37.3	37.6	37.8	37.9	38.0		38.1	38.1	38.2
0.2600E 01		25.7	29.9	32.9	34.8	36.1	36.9	37.4	37.7	37.9	38.0	38.1		38.2	38.2	38.3
0.2700E 01		26.3	30.4	33.3	35.1	36.3	37.0	37.5	37.8	38.0	38.1	38.2		38.3	38.3	38.4
0.2800E 01		26.9	30.9	33.6	35.3	36.4	37.1	37.6	37.9	38.0	38.1	38.2		38.3	38.3	38.4
0.2900E 01		27.4	31.3	33.9	35.6	36.6	37.3	37.7	37.9	38.1	38.2	38.3		38.4	38.4	38.5
0.3000E 01		28.0	31.7	34.2	35.8	36.7	37.4	37.8	38.0	38.2	38.3	38.4		38.5	38.5	38.6
0.3100E 01		28.5	32.1	34.4	35.9	36.9	37.5	37.9	38.1	38.3	38.4	38.5		38.6	38.6	38.7
0.3200E 01		28.9	32.4	34.7	36.1	37.0	37.6	38.0	38.2	38.3	38.4	38.5		38.6	38.6	38.7
0.3300E 01		29.4	32.8	34.9	36.3	37.1	37.6	38.0	38.2	38.3	38.4	38.5		38.6	38.6	38.7
0.3400E 01		29.8	33.0	35.1	36.4	37.2	37.7	38.0	38.2	38.3	38.4	38.5		38.6	38.6	38.7
0.3500E 01		30.2	33.3	35.3	36.5	37.3	37.8	38.1	38.3	38.4	38.5	38.6		38.7	38.7	38.8

D/LAM.0	N	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.3	0.4	0.4	0.6	0.9	1.3	1.7	2.2	2.8	3.4	4.1	4.8	5.5	6.2
0.2000E 00	0.9	1.5	2.3	3.2	4.3	5.5	6.8	8.1	9.4	10.6	11.7	12.8	13.8	14.8
0.3000E 00	1.8	3.0	4.5	6.2	8.0	9.8	11.6	13.3	15.0	16.6	18.1	19.3	20.4	21.4
0.4000E 00	2.8	4.6	6.8	9.2	11.6	13.8	15.8	17.6	19.1	20.4	21.4	22.3	23.0	23.5
0.5000E 00	3.8	6.3	9.1	12.0	14.7	17.2	19.2	20.9	22.3	23.5	24.3	25.0	25.5	25.9
0.6000E 00	4.8	7.9	11.2	14.5	17.4	19.9	21.9	23.5	24.8	25.7	26.4	26.9	27.3	27.6
0.7000E 00	5.9	9.4	13.2	16.7	19.7	22.1	24.0	25.5	26.6	27.3	27.9	28.3	28.6	28.9
0.8000E 00	7.2	11.0	15.1	18.7	21.6	23.9	25.4	27.0	28.2	29.0	29.5	29.9	30.1	30.3
0.9000E 00	8.5	12.6	16.8	20.4	23.2	25.4	26.6	28.1	29.1	29.8	30.3	30.6	30.8	30.9
0.1000E 01	9.8	14.2	18.4	21.9	24.6	26.6	27.6	28.9	29.8	30.4	30.8	31.1	31.3	31.3
0.1100E 01	11.1	15.6	19.8	23.2	25.8	27.6	28.4	29.6	30.4	30.9	31.3	31.5	31.6	31.7
0.1200E 01	12.4	17.0	21.1	24.3	26.7	28.4	29.1	30.2	30.9	31.4	31.7	31.8	32.0	32.0
0.1300E 01	13.6	18.2	22.2	25.3	27.6	29.1	29.7	30.7	31.3	31.7	32.0	32.1	32.2	32.3
0.1400E 01	14.7	19.4	23.3	26.2	28.3	29.7	30.2	31.0	31.6	32.0	32.4	32.6	32.7	32.7
0.1500E 01	15.8	20.5	24.2	27.0	28.9	30.2	30.6	31.4	31.9	32.2	32.6	32.8	32.9	32.9
0.1600E 01	16.9	21.4	25.0	27.6	29.4	30.6	31.3	31.7	32.3	32.6	32.9	33.0	33.1	33.1
0.1700E 01	17.9	22.3	25.9	28.2	29.9	30.9	31.5	32.1	32.5	32.7	32.9	33.0	33.1	33.2
0.1800E 01	18.8	23.2	26.4	28.7	30.2	31.3	31.9	32.3	32.6	32.9	33.0	33.1	33.2	33.2
0.1900E 01	19.7	23.9	27.0	29.2	30.6	31.5	32.1	32.5	32.7	32.9	33.0	33.1	33.2	33.3
0.2000E 01	20.5	24.6	27.6	29.6	30.9	31.7	32.3	32.6	32.9	33.1	33.2	33.3	33.4	33.4
0.2100E 01	21.2	25.2	28.0	29.9	31.2	31.9	32.5	32.8	33.0	33.1	33.2	33.3	33.4	33.4
0.2200E 01	21.9	25.8	28.5	30.2	31.4	32.1	32.6	32.9	33.1	33.2	33.3	33.4	33.5	33.5
0.2300E 01	22.6	26.3	28.9	30.5	31.6	32.3	32.8	33.0	33.1	33.2	33.3	33.4	33.5	33.5
0.2400E 01	23.2	26.8	29.2	30.8	31.8	32.4	32.9	33.1	33.2	33.3	33.4	33.5	33.6	33.6
0.2500E 01	23.8	27.2	29.5	31.0	32.0	32.5	32.9	33.1	33.2	33.3	33.4	33.5	33.6	33.6
0.2600E 01	24.3	27.6	29.8	31.2	32.1	32.7	33.0	33.2	33.3	33.4	33.5	33.6	33.7	33.7
0.2700E 01	24.8	28.0	30.1	31.4	32.2	32.8	33.1	33.3	33.4	33.5	33.6	33.7	33.8	33.8
0.2800E 01	25.3	28.4	30.3	31.6	32.4	32.9	33.2	33.4	33.5	33.6	33.7	33.8	33.9	33.9
0.2900E 01	25.8	28.7	30.6	31.7	32.5	33.0	33.3	33.5	33.6	33.7	33.8	33.9	34.0	34.0
0.3000E 01	26.2	29.0	30.8	31.9	32.6	33.1	33.4	33.6	33.7	33.8	33.9	34.0	34.1	34.1
0.3100E 01	26.5	29.3	31.0	32.0	32.7	33.1	33.4	33.6	33.7	33.8	33.9	34.0	34.1	34.1
0.3200E 01	26.9	29.5	31.1	32.1	32.8	33.2	33.5	33.7	33.8	33.9	34.0	34.1	34.2	34.2
0.3300E 01	27.2	29.7	31.3	32.2	32.9	33.3	33.6	33.8	33.9	34.0	34.1	34.2	34.3	34.3
0.3400E 01	27.6	30.0	31.4	32.3	33.0	33.4	33.7	33.9	34.0	34.1	34.2	34.3	34.4	34.4
0.3500E 01	27.9	30.2	31.6	32.4	33.0	33.3	33.6	33.8	33.9	34.0	34.1	34.2	34.3	34.3

D/LAM.0	W	0.80	0.90	-20. LOG /T/				VLAM.0/W**2D= 0.400000E 00				Y= 0.	1.80	1.90	2.00
				1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70				
0.1000E 00	0.0	0.0	0.4	0.6	0.9	1.3	1.7	2.3	2.8	3.5	4.2	4.9	5.6	6.3	7.0
0.2000E 00	1.0	1.0	1.6	2.4	3.3	4.4	5.5	6.9	8.1	9.3	10.5	11.6	12.5	13.4	14.3
0.3000E 00	1.9	1.9	3.1	4.6	6.3	8.1	9.8	11.5	13.0	14.4	15.6	16.7	17.6	18.3	19.0
0.4000E 00	3.0	3.0	4.8	7.0	9.3	11.5	13.6	15.4	17.0	18.3	19.4	20.2	20.9	21.5	22.0
0.5000E 00	4.0	4.0	6.5	9.2	12.0	14.5	16.7	18.5	19.9	21.1	22.0	22.7	23.2	23.6	24.0
0.6000E 00	5.1	5.1	8.1	11.3	14.3	16.9	19.1	20.8	22.1	23.1	23.9	24.4	24.8	25.0	25.2
0.7000E 00	6.3	6.3	9.7	13.2	16.3	18.9	21.0	22.6	23.7	24.6	25.2	25.6	25.9	26.1	26.3
0.8000E 00	7.5	7.5	11.2	14.9	18.1	20.6	22.5	23.9	24.9	25.7	26.2	26.5	26.7	26.9	27.0
0.9000E 00	8.9	8.9	12.8	16.5	19.5	21.9	23.7	25.0	25.9	26.5	26.9	27.2	27.3	27.4	27.5
0.1000E 01	10.2	10.2	14.2	17.9	20.8	23.1	24.7	25.8	26.6	27.1	27.5	27.7	27.8	27.9	28.0
0.1100E 01	11.4	11.4	15.5	19.1	21.9	24.0	25.5	26.5	27.2	27.6	27.9	28.1	28.2	28.3	28.4
0.1200E 01	12.6	12.6	16.7	20.2	22.9	24.8	26.1	27.0	27.6	28.0	28.2	28.4	28.5	28.5	28.6
0.1300E 01	13.7	13.7	17.8	21.2	23.7	25.4	26.6	27.4	28.0	28.3	28.5	28.7	28.7	28.8	28.9
0.1400E 01	14.8	14.8	18.8	22.0	24.4	26.0	27.1	27.8	28.3	28.6	28.7	28.9	28.9	29.0	29.0
0.1500E 01	15.8	15.8	19.7	22.8	25.0	26.5	27.4	28.1	28.5	28.8	28.9	29.0	29.1	29.1	29.1
0.1600E 01	16.7	16.7	20.6	23.5	25.5	26.9	27.8	28.3	28.7	28.9	29.1	29.2	29.2	29.3	29.3
0.1700E 01	17.6	17.6	21.3	24.1	25.9	27.2	28.0	28.5	28.9	29.1	29.2	29.3	29.3	29.4	29.4
0.1800E 01	18.4	18.4	22.0	24.6	26.3	27.5	28.2	28.7	29.0	29.2	29.3	29.4	29.4	29.5	29.5
0.1900E 01	19.1	19.1	22.6	25.1	26.7	27.8	28.4	28.9	29.2	29.3	29.4	29.5	29.5	29.5	29.5
0.2000E 01	19.8	19.8	23.2	25.5	27.0	28.0	28.6	29.0	29.3	29.4	29.5	29.6	29.6	29.6	29.6
0.2100E 01	20.4	20.4	23.7	25.8	27.3	28.2	28.8	29.1	29.4	29.5	29.6	29.6	29.7	29.7	29.7
0.2200E 01	21.0	21.0	24.1	26.2	27.5	28.4	28.9	29.2	29.4	29.6	29.7	29.7	29.7	29.7	29.7
0.2300E 01	21.6	21.6	24.5	26.5	27.7	28.5	29.0	29.3	29.5	29.6	29.7	29.7	29.8	29.8	29.8
0.2400E 01	22.1	22.1	24.9	26.7	27.9	28.6	29.1	29.4	29.6	29.7	29.8	29.8	29.8	29.8	29.8
0.2500E 01	22.5	22.5	25.2	27.0	28.1	28.8	29.2	29.5	29.7	29.8	29.8	29.9	29.9	29.9	29.9
0.2600E 01	23.0	23.0	25.6	27.2	28.2	28.9	29.3	29.5	29.7	29.8	29.9	29.9	29.9	29.9	29.9
0.2700E 01	23.4	23.4	25.8	27.4	28.4	29.0	29.3	29.6	29.7	29.8	29.9	29.9	29.9	29.9	29.9
0.2800E 01	23.8	23.8	26.1	27.6	28.5	29.1	29.4	29.6	29.8	29.9	29.9	29.9	29.9	29.9	29.9
0.2900E 01	24.2	24.2	26.4	27.8	28.6	29.1	29.5	29.7	29.8	29.9	29.9	29.9	29.9	29.9	29.9
0.3000E 01	24.4	24.4	26.6	27.9	28.7	29.2	29.5	29.7	29.8	29.9	29.9	29.9	29.9	29.9	29.9
0.3100E 01	24.7	24.7	26.8	28.0	28.8	29.3	29.6	29.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9
0.3200E 01	25.0	25.0	27.0	28.2	28.9	29.4	29.7	29.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9
0.3300E 01	25.3	25.3	27.1	28.3	29.0	29.4	29.7	29.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9
0.3400E 01	25.5	25.5	27.3	28.4	29.1	29.5	29.7	29.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9
0.3500E 01	25.7	25.7	27.5	28.5	29.1	29.5	29.7	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9



D/LAM.0	W	-20. LNG /T/	VLAM.0/W*2D= 0.100000E-02										Y= 0.	
			7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00				
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	2.1				
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.0	5.4				
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.6	7.0	10.4				
0.6000E-03	0.0	0.0	0.0	0.0	0.1	0.2	0.2	5.9	10.1	13.7				
0.8000E-03	0.0	0.0	0.0	0.1	0.1	0.2	0.3	7.9	12.4	16.2				
0.1000E-02	0.0	0.0	0.1	0.1	0.2	0.3	0.4	9.6	14.3	18.1				
0.2000E-02	0.0	0.0	0.4	0.7	1.0	1.5	8.7	15.4	20.5	24.5				
0.4000E-02	0.0	0.1	1.4	2.2	3.1	4.2	14.5	21.9	27.5	32.1				
0.6000E-02	0.0	0.4	2.7	4.0	5.3	6.7	18.4	26.4	32.7	38.1				
0.8000E-02	0.0	0.7	4.1	5.7	7.4	9.0	21.5	30.2	37.3	43.7				
0.1000E-01	0.1	1.0	5.5	7.3	9.1	10.9	24.2	33.7	41.8	49.2				
0.2000E-01	0.3	3.2	11.2	13.7	16.0	18.2	35.7	50.2	63.6	76.5				
0.4000E-01	1.0	8.1	19.2	23.3	26.5	29.7	57.6	82.9	107.2	130.7				
0.6000E-01	2.2	12.7	27.6	32.1	36.4	40.6	79.4	115.6	150.5	184.3				
0.8000E-01	3.6	17.1	35.2	40.7	46.2	51.4	101.2	148.2	193.5	237.0				
0.1000E 00	5.2	21.4	42.8	49.4	55.9	62.3	123.0	180.7	236.2	288.6				
0.2000E 00	14.2	28.9	80.6	92.7	104.7	116.6	231.5	340.9	440.7	523.8				
0.3000E 00	23.6	44.3	118.4	136.0	153.5	170.9	339.3	495.6	642.8					
0.4000E 00	33.0	59.8	156.2	179.3	202.3	225.1	445.9	642.8						
0.5000E 00	42.5	75.2	194.0	222.6	251.0	279.3	551.1							
0.6000E 00	52.0	90.6	231.8	265.9	299.8	333.4								
0.7000E 00	61.4	106.1	269.5	309.1	348.4	387.5								
0.8000E 00	70.9	121.5	307.3	352.3	397.0	441.4								
0.9000E 00	80.3	137.0	345.0	395.5	445.6	495.3								
0.1000E 01	89.8	152.4	382.8	438.7	494.1	549.0								
0.1100E 01	99.2	167.8	420.5	481.8	542.5	602.7								
0.1200E 01	108.7	183.3	459.2	524.8	590.9	656.2								
0.1300E 01	118.1	198.7	495.8	567.8	639.1									
0.1400E 01	127.6	214.1	533.4	610.8	687.3									
0.1500E 01	137.0	229.6	571.0	653.7										
0.1600E 01	146.5	245.0	608.6	696.5										
0.1700E 01	156.0	260.4	646.1											
0.1800E 01	165.4	275.9	683.6											
0.1900E 01	174.9	291.3												
0.2000E 01	184.3	306.8												



D/LAM.0		-20. LOG /T/															VLAM.0/W**2D= 0.100000E-01															Y= 0.														
M		2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00																																
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	2.1																																
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.0	5.4																																
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.6	7.1	10.4																																
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	5.9	10.1	13.7																																
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	7.9	12.4	16.2																																
0.1000E-02	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.1	9.6	14.3	18.1																																
0.2000E-02	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.7	15.4	20.5	24.5																																
0.4000E-02	0.0	0.1	0.2	0.4	0.9	1.7	2.7	4.0	5.4	6.8	14.6	21.9	27.5	32.1																																
0.6000E-02	0.0	0.1	0.4	0.7	1.5	2.7	4.1	5.7	7.4	9.0	21.5	30.2	37.2	43.3																																
0.8000E-02	0.0	0.2	0.7	1.1	2.2	3.7	5.3	7.3	9.2	10.9	24.2	33.6	41.5	48.5																																
0.1000E-01	0.1	0.3	1.0	2.2	5.8	8.6	11.2	13.7	16.0	18.2	35.7	49.8	61.9	71.8																																
0.2000E-01	0.3	1.3	3.2	8.1	12.3	16.2	19.9	23.3	26.6	29.7	57.2	79.9	96.3	105.4																																
0.4000E-01	1.0	4.0	8.1	12.7	18.0	23.0	27.6	32.1	36.4	40.6	78.0	106.4	121.9	127.1																																
0.6000E-01	2.2	7.1	12.7	17.1	23.5	29.5	35.2	40.8	46.1	51.4	98.0	129.0	141.2	142.8																																
0.8000E-01	3.6	10.3	13.4	21.4	28.9	36.0	42.8	49.4	55.9	62.2	117.0	148.1	156.5	151.6																																
0.1000E 00	5.2	13.4	28.9	42.6	55.6	68.2	80.4	92.3	103.9	115.1	195.0	211.2	207.1	202.1																																
0.2000E 00	14.2	28.9	44.4	63.7	82.3	100.2	117.6	134.4	150.5	165.8	249.3	250.7	242.8	237.4																																
0.3000E 00	23.7	44.4	59.8	84.8	108.8	132.0	154.2	175.4	195.2	213.5	289.2	281.6	272.7	267.4																																
0.4000E 00	33.1	59.8	75.3	105.0	135.2	163.3	190.0	215.0	237.7	257.7	320.8	308.3	299.2	294.2																																
0.5000E 00	42.6	75.3	105.0	135.2	163.3	194.2	225.0	253.0	277.6	298.4	347.5	332.3	323.3	318.5																																
0.6000E 00	52.0	90.7	126.3	161.4	194.2	225.0	253.0	277.6	298.4	335.5	371.0	354.3	345.6	341.0																																
0.7000E 00	61.5	105.1	147.7	187.4	224.6	258.9	289.2	314.0	335.5	369.3	392.3	374.8	366.4	362.0																																
0.8000E 00	71.0	121.5	168.6	213.1	254.5	291.7	323.7	349.6	369.3	400.1	412.0	394.2	385.9	381.8																																
0.9000E 00	80.4	136.8	189.3	238.5	283.6	323.3	356.2	381.8	400.1	428.3	430.4	412.5	404.5	400.6																																
0.1000E 01	89.9	152.1	209.9	263.6	312.1	353.7	387.0	411.6	439.3	454.1	447.9	420.9	422.2	418.4																																
0.1100E 01	97.3	167.4	230.4	288.4	339.9	382.9	410.8	433.3	465.0	477.8	464.4	446.0	439.2	435.5																																
0.1200E 01	108.8	182.7	250.7	312.8	367.0	410.8	433.3	465.0	477.8	477.8	464.4	446.0	439.2	435.5																																
0.1300E 01	118.2	197.9	270.9	336.9	393.2	437.5	469.0	488.9	499.8	499.8	480.3	462.7	455.4	451.9																																
0.1400E 01	127.7	213.1	291.0	360.5	418.7	463.1	493.2	511.2	511.2	520.2	495.5	478.2	471.1	467.7																																
0.1500E 01	137.1	228.2	310.9	383.8	443.5	487.4	516.1	532.1	532.1	539.3	510.2	493.1	486.2	482.0																																
0.1600E 01	146.5	243.3	330.6	406.6	467.4	510.7	537.6	551.7	551.7	557.2	524.4	507.5	500.9	497.5																																
0.1700E 01	155.9	258.4	350.2	429.0	490.6	532.9	558.0	570.2	570.2	574.1	538.2	521.6	515.0	511.9																																
0.1800E 01	165.3	273.4	369.6	450.9	513.0	554.2	577.4	587.7	587.7	590.1	551.5	535.2	528.8	525.7																																
0.1900E 01	174.7	288.4	388.8	472.4	534.6	574.6	595.7	604.3	604.3	605.3	564.5	548.4	542.2	539.2																																
0.2000E 01	184.1	303.3	407.7	493.5	555.6	593.8	613.2	620.1	620.1	619.9	577.1	561.3	555.2	552.3																																

O/LAM.O	M	-20. LOG /T/					VLAM.O/W*2D=					0.200000E-01					Y=	0.
		2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00				
0.1000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.3	1.0	2.1				
0.2000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.1	5.4				
0.4000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.6	7.1	10.4				
0.6000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	5.9	10.1	13.8				
0.8000E-03		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	7.7	12.5	16.2				
0.1000E-02		0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.6	14.3	18.2				
0.2000E-02		0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.8	15.4	20.5	24.5				
0.4000E-02		0.0	0.1	0.2	0.4	0.8	1.4	2.2	3.2	4.2	14.6	21.9	27.5	31.9				
0.6000E-02		0.0	0.1	0.4	0.9	1.7	2.8	4.0	5.4	6.8	18.5	26.4	32.5	37.5				
0.8000E-02		0.0	0.2	0.7	1.5	2.7	4.1	5.8	7.4	9.0	21.5	30.1	36.8	42.3				
0.1000E-01		0.1	0.1	1.0	2.2	3.7	5.5	7.4	9.2	10.9	24.2	33.5	40.9	46.6				
0.2000E-01		0.3	1.3	3.2	5.6	8.6	11.2	13.7	16.1	18.2	35.6	48.6	57.8	63.0				
0.4000E-01		1.0	4.0	8.2	12.4	16.3	19.9	23.3	26.6	29.7	56.0	72.9	79.7	80.8				
0.6000E-01		2.2	7.2	12.8	18.1	23.0	27.6	32.1	36.3	40.5	74.3	90.2	93.0	91.9				
0.8000E-01		3.6	10.3	17.2	23.5	29.5	35.2	40.7	46.0	51.1	90.3	103.0	102.9	100.9				
0.1000E 00		5.2	13.5	21.4	28.9	36.0	42.7	49.2	55.5	61.6	104.1	113.0	111.2	108.7				
0.2000E 00		14.3	29.0	42.6	55.5	67.9	79.7	90.8	101.2	110.7	150.5	147.0	142.7	140.0				
0.3000E 00		23.7	44.4	63.7	81.9	99.1	115.1	129.6	142.3	153.1	179.0	171.6	167.2	164.8				
0.4000E 00		33.2	59.8	84.5	107.7	129.2	148.4	164.9	178.3	188.4	201.0	192.4	188.2	186.0				
0.5000E 00		42.7	75.2	105.2	133.0	158.0	179.4	196.5	209.2	217.8	219.7	210.8	206.2	204.9				
0.6000E 00		52.1	90.5	125.7	157.6	185.4	207.9	224.6	235.8	242.4	236.4	227.5	223.8	222.0				
0.7000E 00		61.6	105.7	145.6	181.5	211.3	234.0	249.5	258.8	263.4	251.7	243.0	239.5	237.8				
0.8000E 00		71.0	120.9	165.7	204.6	235.6	257.8	271.6	278.9	281.8	265.9	257.5	254.2	252.5				
0.9000E 00		80.5	135.9	185.2	226.7	258.4	279.4	291.4	296.8	298.1	279.2	271.1	267.9	266.4				
0.1000E 01		89.9	150.9	204.3	248.0	279.6	299.2	309.2	312.8	312.9	291.9	284.0	280.9	279.5				
0.1100E 01		99.3	165.7	223.0	268.4	299.5	317.3	325.4	327.5	326.4	303.9	296.2	293.3	291.9				
0.1200E 01		108.7	180.4	241.2	287.8	318.0	334.0	340.2	340.9	339.0	315.4	308.0	305.2	303.8				
0.1300E 01		118.0	195.0	259.1	306.4	335.4	349.4	353.9	353.4	350.7	326.4	319.2	316.5	315.2				
0.1400E 01		127.4	209.4	276.5	324.1	351.6	363.7	366.6	365.1	361.8	337.0	330.0	327.4	326.2				
0.1500E 01		136.7	223.7	293.4	341.0	366.8	377.0	378.5	376.2	372.4	347.2	340.4	337.9	336.7				
0.1600E 01		146.0	237.9	309.3	357.0	381.0	389.0	389.8	386.6	382.5	357.1	350.5	348.0	346.9				
0.1700E 01		155.3	251.9	325.8	372.4	394.5	401.2	400.4	396.6	392.1	366.7	360.2	357.9	356.7				
0.1800E 01		164.5	265.7	341.4	386.9	407.2	412.3	410.5	406.2	401.4	376.0	369.7	367.4	366.3				
0.1900E 01		173.7	279.3	356.4	400.9	419.2	422.8	420.1	415.4	410.4	385.0	378.9	370.6	375.5				
0.2000E 01		182.9	292.8	371.0	414.2	430.6	432.9	429.4	424.2	419.0	393.8	387.8	385.6	384.5				

D/LAM.0	W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	9.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	2.1
0.2000E-03	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.1	5.5
0.4000E-03	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.6	7.1	10.5
0.6000E-03	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.0	10.1	13.8
0.8000E-03	0.0	9.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	8.0	12.5	16.2
0.1000E-02	0.0	9.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.4	18.2
0.2000E-02	0.0	9.0	0.1	0.2	0.4	0.8	1.4	2.2	3.2	4.5	8.8	15.4	20.5	24.5
0.4000E-02	0.0	9.0	0.1	0.4	0.9	1.7	2.8	4.0	5.4	6.8	14.6	21.9	27.4	31.7
0.6000E-02	0.0	9.0	0.2	0.7	1.5	2.7	4.2	5.8	7.4	9.0	18.5	26.3	32.2	36.7
0.8000E-02	0.0	9.0	0.2	1.0	2.2	3.7	5.5	7.4	9.2	10.9	21.5	29.9	36.2	40.8
0.1000E-01	0.1	9.0	0.3	3.3	5.9	8.6	11.3	13.7	16.1	18.2	24.2	33.2	39.8	44.3
0.2000E-01	0.3	9.0	1.3	8.2	12.4	16.3	19.9	23.3	26.6	29.6	35.3	46.9	53.2	55.4
0.4000E-01	1.1	9.0	4.0	12.8	18.1	23.0	27.6	32.0	36.2	40.3	54.1	65.5	76.7	82.1
0.6000E-01	2.2	9.0	7.2	17.2	23.5	29.5	35.2	40.6	45.7	50.5	69.4	81.6	93.8	98.5
0.8000E-01	3.7	9.0	10.4	21.5	28.9	35.9	42.6	48.9	55.0	60.6	81.6	92.5	104.1	113.6
0.1000E 00	5.3	9.0	13.5	24.6	33.3	41.3	48.4	54.5	60.6	65.7	91.4	102.3	114.1	122.9
0.2000E 00	14.3	9.0	29.0	42.6	55.3	67.3	78.4	88.5	97.3	104.7	122.9	137.7	152.0	166.1
0.3000E 00	23.8	9.0	44.4	63.5	81.1	97.1	111.2	122.8	131.3	138.9	143.5	154.5	167.2	179.9
0.4000E 00	33.2	9.0	59.8	84.0	105.9	124.9	140.3	151.7	159.3	163.9	160.3	169.5	181.0	192.7
0.5000E 00	42.7	9.0	75.0	104.1	129.6	150.4	165.7	175.8	181.5	184.1	175.1	180.8	193.6	204.6
0.6000E 00	52.2	9.0	90.1	123.7	152.0	173.5	187.3	196.0	199.9	200.8	188.5	193.1	205.5	215.7
0.7000E 00	61.6	9.0	105.0	142.7	173.0	194.4	207.2	213.4	215.4	215.1	200.8	195.6	208.3	226.2
0.8000E 00	71.0	9.0	119.3	161.1	192.7	213.2	224.1	228.4	229.0	227.6	212.2	207.3	216.6	235.7
0.9000E 00	80.4	9.0	134.4	178.8	211.0	230.2	239.2	241.8	241.2	239.3	223.0	218.3	227.0	246.2
0.1000E 01	89.7	9.0	148.7	195.9	228.1	245.6	252.7	253.8	252.3	249.9	233.2	228.7	237.0	255.8
0.1100E 01	99.0	9.0	162.9	212.2	244.0	259.7	264.9	264.8	262.6	259.7	243.0	238.6	246.9	264.3
0.1200E 01	108.3	9.0	176.7	227.9	258.7	272.5	276.1	275.0	272.2	269.0	252.2	248.0	255.6	272.0
0.1300E 01	117.5	9.0	190.3	242.8	272.5	284.3	286.5	284.5	281.2	277.9	261.1	257.1	264.3	280.1
0.1400E 01	126.7	9.0	203.6	257.1	285.3	295.3	296.1	295.4	289.8	286.3	269.6	265.7	272.7	288.0
0.1500E 01	135.8	9.0	216.7	270.7	297.3	305.5	305.2	301.9	298.0	294.2	277.8	274.1	280.8	295.5
0.1600E 01	144.9	9.0	229.5	283.7	308.5	315.0	313.7	309.9	305.8	302.1	285.8	282.1	288.6	302.9
0.1700E 01	154.0	9.0	241.9	296.1	319.0	324.0	321.8	317.6	313.3	309.5	293.5	289.9	296.1	310.6
0.1800E 01	162.9	9.0	254.1	307.8	329.0	332.5	329.5	325.0	320.6	316.7	300.9	297.4	303.4	318.8
0.1900E 01	171.8	9.0	266.0	319.1	338.3	340.6	336.3	332.1	327.6	323.7	308.1	304.7	310.6	329.9
0.2000E 01	180.7	9.0	277.6	329.8	347.2	348.2	344.0	338.9	334.3	330.5	315.1	311.8	318.8	330.0

Y= 0.

V2LAM.0/W\*\*2D= 0.300000E-01

--20. LOG /T/

-20. LOG /T/															VLAM.0/W**2D= 0.400000E-01															Y= 0.		
S/LAM.0	H	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00																		
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	5.1																		
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.1	5.5																		
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.6	7.1	10.5																		
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.0	10.2	13.8																		
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	1.1	6.0	12.5	16.2																		
0.1000E-02	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	15.4	18.2																		
0.2000E-02	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.8	25.5	20.5	24.4																		
0.4000E-02	0.0	0.1	0.2	0.4	0.8	0.8	1.4	2.2	3.2	4.2	14.5	21.5	27.2	31.3																		
0.6000E-02	0.0	0.1	0.4	0.9	1.7	1.7	2.8	4.0	5.4	6.8	18.5	26.2	31.8	35.8																		
0.8000E-02	0.0	0.2	0.7	1.5	2.7	2.7	4.2	5.8	7.4	9.0	21.5	29.7	35.5	39.2																		
0.1000E-01	0.1	0.3	1.0	2.2	3.8	3.8	5.5	7.4	9.2	11.0	24.1	32.3	38.6	41.9																		
0.2000E-01	0.3	1.3	3.3	5.9	8.6	8.6	11.3	13.8	16.1	18.3	34.9	44.3	48.9	49.8																		
0.4000E-01	1.1	4.1	8.2	12.4	16.3	16.3	19.9	23.3	26.5	29.6	51.9	59.2	58.5	58.5																		
0.6000E-01	2.2	7.2	12.8	18.1	23.0	23.0	27.6	32.0	36.1	40.0	64.5	67.9	66.5	65.2																		
0.8000E-01	3.7	10.4	17.2	23.5	29.5	29.5	35.1	40.3	45.3	49.9	73.8	74.3	73.4	71.1																		
0.1000E 00	5.3	13.5	21.5	28.9	35.8	35.8	42.4	48.5	54.2	59.4	81.1	79.8	77.6	76.4																		
0.2000E 00	14.3	29.0	42.5	55.1	66.5	66.5	76.8	85.5	92.6	98.3	105.3	101.1	99.1	98.0																		
0.3000E 00	23.8	44.4	63.2	80.1	94.7	94.7	106.5	115.2	121.1	124.7	122.3	118.0	116.2	115.2																		
0.4000E 00	33.3	59.6	83.2	103.5	119.7	119.7	131.3	139.6	142.5	144.1	136.6	132.4	130.8	130.0																		
0.5000E 00	42.7	74.7	102.5	125.2	141.7	141.7	151.9	157.2	159.2	159.4	149.2	143.0	143.8	143.0																		
0.6000E 00	52.2	87.5	121.0	145.1	160.8	160.8	167.3	172.5	173.1	172.2	160.7	157.0	155.6	154.9																		
0.7000E 00	61.6	104.0	130.7	163.3	177.5	177.5	183.9	185.6	185.0	183.6	171.2	167.8	166.3	165.9																		
0.8000E 00	70.9	118.3	141.4	179.7	192.2	192.2	196.7	197.0	195.6	193.6	181.1	177.8	176.6	176.0																		
0.9000E 00	80.2	132.2	151.1	194.6	205.2	205.2	208.0	207.2	205.2	202.9	190.3	187.2	186.0	185.5																		
0.1000E 01	89.4	145.8	166.0	208.2	216.8	216.8	218.2	216.6	214.1	211.5	199.1	196.1	195.0	194.5																		
0.2000E 01	98.6	159.0	199.7	220.6	227.3	227.3	227.5	225.2	222.4	219.7	207.4	204.5	203.5	203.0																		
0.3000E 01	107.7	171.8	213.0	231.9	236.9	236.9	236.0	233.3	230.2	227.4	215.3	212.5	211.1	211.1																		
0.4000E 01	116.8	184.3	225.3	242.3	245.8	245.8	244.0	240.8	237.6	234.8	222.0	219.2	218.6	218.6																		
0.5000E 01	125.7	196.3	236.8	251.3	254.0	254.0	251.6	248.0	244.7	241.8	227.5	226.6	226.2	226.2																		
0.6000E 01	134.6	208.0	247.6	260.9	261.8	261.8	258.7	254.9	251.5	248.6	237.1	234.6	233.7	233.3																		
0.7000E 01	143.4	217.2	257.7	269.2	269.0	269.0	265.7	261.8	258.0	255.1	243.8	240.9	240.5	240.1																		
0.8000E 01	152.1	230.5	267.3	277.1	275.9	275.9	271.9	267.8	264.2	261.4	250.3	248.0	247.1	246.7																		
0.9000E 01	160.7	240.5	276.3	284.4	282.4	282.4	278.1	273.8	270.3	267.4	256.6	254.3	253.5	253.1																		
0.1000E 02	169.2	250.6	284.8	291.4	288.6	288.6	284.0	279.7	276.1	273.3	262.7	260.4	259.7	259.3																		
0.2000E 02	177.5	260.3	292.9	298.0	294.6	294.6	289.7	285.4	281.8	279.0	268.6	266.4	265.6	265.3																		



D/LAM.0	H	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	2.1
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.1	5.5
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.7	7.2	10.5
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	2.0	6.0	10.2	13.8
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	3.1	8.0	12.5	15.3
0.1000E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	4.2	9.7	14.4	18.2
0.2000E-02	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.9	15.5	20.4	24.2
0.4000E-02	0.0	0.0	0.1	0.2	0.4	0.8	1.5	2.3	3.2	4.3	14.7	21.8	26.9	30.4
0.6000E-02	0.0	0.0	0.1	0.4	0.9	1.7	2.8	4.1	5.5	6.9	18.5	26.0	30.9	33.9
0.8000E-02	0.0	0.0	0.2	0.7	1.5	2.7	4.2	5.8	7.5	9.1	21.5	29.2	33.8	36.1
0.1000E-01	0.1	0.3	1.0	2.2	5.9	3.8	5.6	7.4	9.3	11.0	24.0	31.3	36.0	37.6
0.2000E-01	0.3	1.3	3.3	5.9	12.4	16.3	11.3	13.8	16.1	18.3	33.9	39.8	42.2	42.2
0.4000E-01	1.1	4.1	8.1	12.4	18.1	23.0	17.9	23.3	26.4	29.3	47.3	49.9	43.2	48.4
0.6000E-01	2.3	7.3	12.9	18.1	23.5	29.4	24.8	31.7	35.6	39.2	55.8	55.7	54.4	53.5
0.8000E-01	3.7	10.4	17.2	23.5	29.4	35.6	34.8	39.7	44.2	48.2	61.9	60.4	58.9	58.1
0.1000E-00	5.3	13.6	21.5	28.8	35.6	41.8	41.8	47.3	52.2	56.3	66.8	64.5	63.1	62.3
0.2000E-00	14.4	29.0	42.3	54.2	64.4	72.6	72.6	78.8	82.9	85.5	84.3	81.5	80.3	79.7
0.3000E-00	23.9	44.3	62.2	77.2	88.7	96.3	96.3	100.7	102.8	103.5	97.7	95.0	94.0	93.5
0.4000E-00	33.3	59.2	81.0	97.6	108.4	114.2	114.2	116.6	117.1	116.6	109.1	106.7	105.7	105.3
0.5000E-00	42.8	73.7	98.4	115.3	124.5	128.3	128.3	129.1	128.5	127.3	119.2	117.0	116.2	115.8
0.6000E-00	52.1	87.7	114.4	130.5	137.8	139.9	139.9	139.5	138.2	136.7	128.4	126.6	125.6	125.2
0.7000E-00	61.4	101.2	129.0	143.7	149.1	149.7	149.7	148.5	146.8	145.1	136.9	135.0	134.3	133.9
0.8000E-00	70.5	114.2	142.3	155.3	158.9	158.4	158.4	156.6	154.6	152.8	144.8	143.0	142.3	142.0
0.9000E-00	77.6	126.6	154.4	165.4	167.5	166.2	166.2	164.0	161.9	160.0	152.2	150.4	149.8	149.5
0.1000E-01	88.5	138.3	165.3	174.5	175.3	173.3	173.3	170.9	168.6	166.7	159.1	157.5	156.9	156.6
0.1200E-01	97.3	149.5	175.3	182.7	182.4	179.9	179.9	177.3	175.0	173.1	165.7	164.1	163.6	163.3
0.1400E-01	106.0	160.1	184.5	190.2	188.9	186.1	186.1	183.3	181.0	179.1	171.9	170.4	169.9	169.6
0.1600E-01	114.5	170.1	192.8	197.0	195.0	191.9	191.9	189.1	186.7	184.9	177.9	176.5	175.9	175.7
0.1800E-01	122.8	179.5	200.6	203.3	200.8	197.5	197.5	194.6	192.2	190.4	183.6	182.2	181.7	181.5
0.2000E-01	131.0	188.4	207.7	209.3	206.2	202.7	202.7	199.8	197.5	195.7	189.1	187.7	187.2	187.0
0.2200E-01	139.1	196.9	214.3	214.8	211.4	207.8	207.8	204.8	202.5	200.7	194.3	193.0	192.5	192.3
0.2400E-01	146.9	204.8	220.5	220.1	216.3	212.6	212.6	209.6	207.4	205.6	199.3	198.1	197.6	197.4
0.2600E-01	154.6	212.3	225.4	225.0	221.0	217.2	217.2	214.3	212.0	210.3	204.0	203.0	202.5	202.3
0.2800E-01	162.1	219.4	231.8	229.8	225.5	221.7	221.7	218.8	216.5	214.9	208.9	207.7	207.3	207.1
0.3000E-01	169.5	226.2	237.0	234.3	229.8	226.0	226.0	223.1	220.9	219.2	213.4	212.3	211.9	211.7

Y= 0.

VLAM.0/W\*\*2D= 0.600000E-01

-20. LOG /T/

D/LAM.0	W	-20. LOG /T/					VLAM.0/W**20=					0.700000E-01					Y= 0.	
		2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00				
0.1000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	2.2				
0.2000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	3.1	5.5				
0.4000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.7	7.2	10.5				
0.6000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.0	10.2	13.8				
0.8000E-03		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	8.0	12.5	16.3				
0.1000E-02		0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.4	18.2				
0.2000E-02		0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.9	15.5	20.4	24.1				
0.4000E-02		0.0	0.1	0.2	0.4	0.8	1.5	2.3	3.2	4.3	14.7	21.8	26.7	29.9				
0.6000E-02		0.0	0.1	0.4	0.9	1.7	2.8	4.1	5.5	6.9	18.5	25.8	30.4	32.9				
0.8000E-02		0.0	0.2	0.7	1.5	2.7	4.2	5.8	7.5	9.1	21.4	28.8	34.7	37.9				
0.1000E-01		0.1	0.4	1.0	2.2	3.8	5.6	7.5	9.3	11.0	23.9	31.3	34.8	35.9				
0.2000E-01		0.3	1.3	3.3	5.9	8.7	11.3	13.8	16.1	18.3	33.3	39.0	39.9	39.6				
0.4000E-01		1.1	4.1	8.3	12.5	16.3	19.9	23.2	26.3	29.2	45.1	46.6	45.7	45.0				
0.6000E-01		2.3	7.3	12.9	18.1	23.0	27.4	31.5	35.3	38.7	52.3	51.6	50.4	49.7				
0.8000E-01		3.7	10.4	17.3	23.5	29.3	34.6	39.3	43.5	47.1	57.5	55.8	54.2	53.9				
0.1000E 00		5.3	13.6	21.5	28.8	35.4	41.4	46.6	51.0	54.5	61.7	59.5	58.3	57.7				
0.2000E 00		14.4	29.0	42.1	53.6	63.1	70.4	75.4	78.4	80.0	77.5	75.1	74.1	73.6				
0.3000E 00		23.9	44.2	61.6	75.6	85.4	91.4	94.4	95.4	95.5	89.7	87.5	86.7	86.3				
0.4000E 00		33.4	58.9	79.6	94.3	102.9	106.9	108.0	107.8	107.0	100.2	98.2	97.5	97.1				
0.5000E 00		42.7	73.1	96.0	110.2	116.8	118.3	118.8	117.8	116.5	109.5	107.7	107.0	106.7				
0.6000E 00		52.0	86.6	110.7	123.5	128.2	128.8	127.8	126.4	124.9	118.0	116.3	115.7	115.4				
0.7000E 00		61.2	99.5	123.3	134.9	137.9	137.4	135.8	134.1	132.5	125.7	124.2	123.6	123.3				
0.8000E 00		70.2	111.8	135.7	144.8	146.2	144.9	143.0	141.1	139.5	132.9	131.5	130.9	130.7				
0.9000E 00		79.1	123.3	146.2	153.4	153.7	151.8	149.6	147.7	146.1	139.7	138.3	137.8	137.6				
0.1000E 01		87.8	134.1	155.7	161.1	160.4	158.1	155.8	153.8	152.2	146.0	144.7	144.2	144.0				
0.2000E 01		96.4	144.2	164.2	168.1	166.6	164.0	161.6	159.6	158.0	152.0	150.8	150.3	150.1				
0.3000E 01		104.8	153.7	172.0	174.5	172.3	169.5	167.1	165.1	163.5	157.7	156.5	156.1	155.9				
0.4000E 01		113.0	162.6	179.1	180.4	177.7	174.7	172.2	170.3	168.7	163.1	162.0	161.6	161.4				
0.5000E 01		121.0	170.9	185.6	185.8	182.8	179.7	177.2	175.2	173.7	168.3	167.2	166.8	166.6				
0.6000E 01		128.8	178.7	191.6	190.9	187.6	184.4	181.9	180.0	178.5	173.2	172.2	171.8	171.6				
0.7000E 01		136.4	186.0	197.2	195.7	192.1	188.0	186.4	184.5	183.1	178.0	176.9	176.6	176.4				
0.8000E 01		143.8	192.8	202.5	200.3	196.5	193.3	190.8	188.9	187.5	182.5	181.5	181.2	181.0				
0.9000E 01		151.0	199.2	207.4	204.4	200.7	197.4	195.0	193.1	191.7	186.9	185.9	185.6	185.4				
0.1000E 02		158.0	205.2	212.0	208.7	204.7	201.4	199.0	197.2	195.8	191.1	190.2	189.7	189.5				
0.2000E 02		164.7	210.9	216.3	212.7	208.5	205.3	202.9	201.1	199.8	195.2	194.3	193.9	193.8				

D/LAM.C	H	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.0	2.2
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	3.1	5.6
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.7	7.2	10.6
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.1	10.2	13.9
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	8.1	12.6	16.3
0.1000E-02	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.3	9.8	14.4	18.2
0.2000E-02	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.7	1.0	1.5	8.9	15.5	20.4	24.0
0.4000E-02	0.0	0.1	0.2	0.4	0.4	0.9	1.5	2.3	3.2	4.3	14.7	21.7	26.4	29.4
0.6000E-02	0.0	0.1	0.4	0.7	0.9	1.7	2.8	4.1	5.5	6.9	18.4	25.6	29.8	32.0
0.8000E-02	0.0	0.2	0.7	1.5	2.8	3.8	4.2	5.9	7.5	9.1	21.4	28.5	32.0	33.4
0.1000E-01	0.1	0.4	1.0	2.2	3.8	5.6	5.6	7.5	9.3	11.0	23.8	30.7	33.6	34.4
0.2000E-01	1.1	4.1	8.3	12.5	16.3	19.9	11.4	13.8	16.1	18.3	32.7	37.4	37.8	37.4
0.4000E-01	2.3	7.3	12.9	18.1	22.9	27.3	19.3	23.2	26.2	28.0	43.1	43.8	42.9	42.3
0.6000E-01	3.7	10.5	17.3	23.5	29.2	34.3	27.3	31.3	34.9	38.1	49.3	48.2	47.2	46.6
0.8000E-01	5.4	13.6	21.5	28.7	35.2	40.9	34.3	38.9	42.8	46.0	53.8	52.1	51.0	50.5
0.1000E-00	14.5	29.0	42.0	53.0	61.8	68.1	40.9	45.8	49.8	52.8	57.5	55.5	54.5	54.0
0.2000E-00	23.9	44.0	60.9	73.8	82.2	86.8	68.1	72.1	74.3	75.3	72.0	69.9	69.1	68.7
0.3000E-00	33.4	58.5	78.1	91.0	97.7	100.3	86.8	88.7	89.1	88.8	83.3	81.5	80.8	80.5
0.4000E-00	42.7	72.3	93.4	105.2	109.9	110.8	100.3	100.6	100.0	99.1	93.1	91.4	90.8	90.5
0.5000E-00	51.9	85.4	106.9	117.0	119.8	119.8	110.8	110.2	109.0	107.8	101.7	100.2	99.7	99.4
0.6000E-00	61.0	97.7	118.8	126.9	128.2	127.2	119.6	118.3	116.8	115.5	109.5	108.2	107.7	107.4
0.7000E-00	69.9	109.1	129.3	135.5	135.6	133.9	127.2	125.5	123.9	122.5	116.7	115.5	115.0	114.8
0.8000E-00	78.6	119.8	138.5	143.0	142.2	140.1	138.1	136.4	135.0	133.0	129.6	128.5	128.1	127.9
0.9000E-00	87.1	129.7	146.8	149.7	148.2	145.9	143.7	142.0	140.6	138.5	135.5	134.4	134.0	133.8
0.1000E-01	95.4	138.9	156.2	155.8	153.7	151.2	149.0	147.3	146.0	144.0	141.0	140.0	139.6	139.4
0.1100E-01	103.5	147.5	160.9	161.4	158.9	156.2	154.0	152.3	151.0	149.0	145.2	145.2	144.9	144.7
0.1200E-01	111.4	155.3	167.0	166.6	163.7	161.0	158.8	157.1	155.8	154.0	151.2	150.2	149.9	149.8
0.1300E-01	119.0	162.7	172.6	171.4	168.3	165.5	163.3	161.7	160.4	158.9	155.9	155.0	154.7	154.5
0.1400E-01	126.4	169.4	177.8	175.9	172.6	169.8	167.6	166.0	164.8	163.0	160.4	159.3	159.1	159.1
0.1500E-01	133.5	175.7	182.7	180.2	176.7	173.9	171.8	170.2	169.0	167.0	164.8	163.9	163.6	163.5
0.1600E-01	140.4	181.6	187.2	184.2	180.7	177.8	175.7	174.2	173.0	171.0	168.1	167.8	167.7	167.7
0.1700E-01	147.1	187.1	191.4	188.1	184.4	181.6	179.5	178.0	176.9	175.9	172.9	172.1	171.8	171.7
0.1800E-01	153.6	192.3	195.4	191.7	188.1	185.3	183.2	181.7	180.6	179.6	176.7	176.0	175.7	175.6
0.1900E-01	159.8	197.1	199.2	195.2	191.5	188.8	186.7	185.3	184.2	183.2	180.4	179.7	179.4	179.3
0.2000E-01														

Y= 0.

VLAM.O/W\*\*2D= 0.900000E-01

-20. LOG /T/



D/LAM.0	W	-20. LOG /T/	VLAM.0/W**2D= 0.900000E-01										Y=	0.	
			2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.0	2.2
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	3.2	5.6
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.7	7.2	10.6
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.1	10.3	13.9
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.2	9.1	12.6	16.3
0.1000E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.3	9.8	14.4	18.1
0.2000E-02	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.1	1.5	8.9	15.5	20.3	23.9
0.4000E-02	0.0	0.1	0.1	0.1	0.4	0.9	1.5	2.3	3.2	3.2	4.3	14.7	21.6	26.2	28.9
0.6000E-02	0.0	0.1	0.1	0.1	0.7	1.7	2.8	4.1	5.5	5.5	6.9	19.4	25.4	29.3	31.1
0.8000E-02	0.0	0.2	0.2	0.7	1.5	2.8	4.3	5.6	7.5	7.5	9.1	21.3	28.1	31.2	32.3
0.1000E-01	0.1	0.4	1.0	2.2	3.8	5.6	7.5	9.3	11.1	11.1	11.1	23.7	30.1	32.5	33.1
0.2000E-01	0.3	1.3	3.3	6.0	8.7	11.4	13.8	16.1	18.2	18.2	18.2	32.1	35.9	36.0	35.6
0.4000E-01	1.1	4.1	8.3	12.5	16.4	19.9	23.1	26.1	28.8	28.8	28.8	41.2	41.4	40.6	40.0
0.6000E-01	2.3	7.3	12.9	18.1	22.9	27.2	31.1	34.6	37.5	37.5	37.5	46.6	45.5	44.5	44.0
0.8000E-01	3.8	10.5	17.3	23.5	28.1	34.1	38.4	42.0	44.9	44.9	44.9	50.6	49.0	48.1	47.6
0.1000E-00	5.4	13.6	21.5	28.6	35.0	40.5	45.0	48.5	51.1	51.1	51.1	54.0	52.2	51.4	50.9
0.2000E-00	14.5	29.0	41.7	52.3	60.4	65.8	68.9	70.5	71.0	71.0	71.0	67.4	65.7	65.0	64.7
0.3000E-00	24.0	47.9	60.2	72.0	77.1	82.5	83.7	83.7	83.7	83.2	83.2	78.1	76.5	76.0	75.7
0.4000E-00	33.4	58.1	70.6	87.8	92.9	94.0	94.3	93.5	92.6	92.6	92.6	87.2	85.8	85.3	85.1
0.5000E-00	42.6	71.5	90.5	100.5	103.7	103.9	102.9	101.7	100.6	100.6	100.6	95.3	94.0	93.6	93.4
0.6000E-00	51.8	84.0	103.2	110.9	112.5	111.7	110.3	109.0	107.7	107.7	107.7	102.6	101.5	101.0	100.8
0.7000E-00	60.7	95.7	113.2	119.7	120.0	118.6	117.0	115.5	114.2	114.2	114.2	109.3	108.2	107.9	107.7
0.8000E-00	69.5	106.4	123.2	127.3	126.6	124.8	123.0	121.5	120.3	120.3	120.3	115.5	114.5	114.2	114.0
0.9000E-00	78.0	116.3	131.4	134.0	132.6	130.5	128.6	127.1	125.8	125.8	125.8	121.3	120.4	120.0	119.9
0.1000E-01	86.3	125.4	138.7	139.2	138.0	135.7	133.8	132.3	131.1	131.1	131.1	126.7	125.9	125.5	125.4
0.1100E-01	94.3	133.7	145.2	145.3	143.0	140.7	138.7	137.2	135.0	135.0	135.0	131.9	131.0	130.7	130.6
0.1200E-01	102.1	141.3	151.1	150.3	147.7	145.3	143.3	141.9	140.7	140.7	140.7	136.7	135.9	135.6	135.5
0.1300E-01	109.6	148.3	156.4	155.0	152.1	149.7	147.7	146.3	145.2	145.2	145.2	141.3	140.5	140.2	140.1
0.1400E-01	116.8	154.8	161.3	159.3	156.3	153.8	151.9	150.5	149.4	149.4	149.4	145.7	144.9	144.6	144.5
0.1500E-01	123.8	160.7	165.9	163.4	160.3	157.8	155.9	154.5	153.5	153.5	153.5	149.8	149.1	148.8	148.7
0.1600E-01	130.5	166.3	170.2	167.2	164.0	161.5	159.7	158.3	157.3	157.3	157.3	153.8	153.1	152.9	152.7
0.1700E-01	136.9	171.4	174.1	170.9	167.6	165.1	163.3	162.0	161.0	161.0	161.0	157.6	156.9	156.7	156.6
0.1800E-01	143.1	176.1	177.9	174.4	171.1	168.6	166.8	165.5	164.6	164.6	164.6	161.3	160.6	160.4	160.3
0.1900E-01	149.0	180.6	181.4	177.7	174.4	171.9	170.2	168.9	168.0	168.0	168.0	164.8	164.1	163.9	163.8
0.2000E-01	154.6	184.7	184.8	180.8	177.5	175.1	173.4	172.2	171.3	171.3	171.3	168.1	167.5	167.3	167.2

D/LAM.0	M	-20. LOG /T/	VLAM.O/M*2D=				0.100000E 00	Y=	0.	50.00
			7.00	8.00	9.00	10.00	20.00	30.00	40.00	
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.0	2.2
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	3.2	5.6
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.7	7.2	10.6
0.6000E-03	0.0	0.0	0.0	0.1	0.1	0.2	2.1	6.1	10.3	13.9
0.8000E-03	0.0	0.0	0.1	0.1	0.2	0.3	3.2	8.1	12.6	16.3
0.1000E-02	0.0	0.0	0.1	0.2	0.3	0.4	4.3	9.8	14.4	18.1
0.2000E-02	0.0	0.1	0.2	0.3	0.4	0.5	5.4	11.9	16.5	20.2
0.4000E-02	0.0	0.2	0.4	0.6	0.8	1.0	7.6	15.5	20.3	23.7
0.6000E-02	0.0	0.4	0.8	1.2	1.6	2.0	10.9	21.6	25.9	28.4
0.8000E-02	0.0	0.6	1.2	1.8	2.4	3.0	14.7	25.2	28.7	30.3
0.1000E-01	0.1	1.5	2.8	4.1	5.5	6.9	21.2	27.7	30.4	31.3
0.2000E-01	0.1	2.2	3.8	5.7	7.5	9.3	29.5	29.5	31.5	31.5
0.4000E-01	0.3	3.3	5.7	8.7	11.4	14.1	39.6	34.5	34.5	34.1
0.6000E-01	0.5	4.2	8.3	12.5	16.4	20.1	44.3	39.4	38.6	38.1
0.8000E-01	0.7	5.1	10.5	15.6	20.9	26.0	49.9	43.1	42.3	41.8
0.1000E-00	1.1	6.0	12.5	18.1	24.2	30.9	55.1	46.4	45.6	45.2
0.2000E-00	1.5	7.0	15.6	21.5	28.9	37.0	61.1	49.4	48.7	48.3
0.4000E-00	2.3	8.3	21.5	28.5	34.7	44.1	67.1	62.1	61.5	61.2
0.6000E-00	3.8	10.5	29.0	34.7	41.2	49.4	73.6	72.3	71.8	71.6
0.8000E-00	5.4	13.7	37.0	44.1	47.2	51.1	82.2	81.1	80.6	80.4
0.1000E-00	7.6	16.4	44.1	51.1	55.1	58.9	89.8	88.8	88.4	88.2
0.2000E-00	10.9	19.9	51.1	58.9	61.1	63.6	95.6	95.4	95.4	95.2
0.4000E-00	14.7	23.7	58.9	63.6	66.0	67.3	101.2	102.1	101.8	101.6
0.6000E-00	18.1	27.1	66.0	67.3	69.0	70.0	107.3	108.0	107.7	107.6
0.8000E-00	21.2	30.4	70.0	69.0	70.0	71.1	112.9	113.5	113.2	113.1
0.1000E-00	24.2	33.8	71.1	69.0	70.0	71.1	118.2	118.6	118.3	118.2
0.2000E-00	27.7	37.0	71.1	69.0	70.0	71.1	123.1	123.4	123.1	123.0
0.4000E-00	30.4	40.3	71.1	69.0	70.0	71.1	127.7	127.9	127.7	127.6
0.6000E-00	33.8	43.1	71.1	69.0	70.0	71.1	132.1	132.2	132.0	131.9
0.8000E-00	37.0	45.6	71.1	69.0	70.0	71.1	136.2	136.3	136.1	136.0
0.1000E-00	40.3	48.3	71.1	69.0	70.0	71.1	140.2	140.2	140.0	139.9
0.2000E-00	43.1	51.1	71.1	69.0	70.0	71.1	144.8	144.5	143.7	143.6
0.4000E-00	45.6	53.2	71.1	69.0	70.0	71.1	149.5	147.5	147.3	147.2
0.6000E-00	48.3	55.6	71.1	69.0	70.0	71.1	154.9	150.9	150.6	150.6
0.8000E-00	51.1	58.9	71.1	69.0	70.0	71.1	159.4	154.1	153.9	153.8
0.1000E-00	54.1	61.2	71.1	69.0	70.0	71.1	163.7	157.2	157.0	156.9
0.2000E-00	57.6	63.6	71.1	69.0	70.0	71.1	167.7	162.2	162.0	161.9
0.4000E-00	61.1	66.0	71.1	69.0	70.0	71.1	171.1	165.8	165.7	165.6
0.6000E-00	64.1	68.4	71.1	69.0	70.0	71.1	174.5	169.4	169.3	169.2
0.8000E-00	67.3	70.0	71.1	69.0	70.0	71.1	177.7	172.5	172.4	172.3
0.1000E-00	70.0	71.1	71.1	69.0	70.0	71.1	180.6	175.9	175.8	175.7
0.2000E-00	72.3	72.3	71.1	69.0	70.0	71.1	183.1	179.1	179.0	178.9
0.4000E-00	74.3	73.6	71.1	69.0	70.0	71.1	185.1	181.4	181.3	181.2
0.6000E-00	75.6	74.3	71.1	69.0	70.0	71.1	186.7	182.8	182.7	182.6
0.8000E-00	76.1	74.3	71.1	69.0	70.0	71.1	187.7	183.9	183.8	183.7
0.1000E-00	76.1	74.3	71.1	69.0	70.0	71.1	188.2	184.6	184.5	184.4
0.2000E-00	76.1	74.3	71.1	69.0	70.0	71.1	188.2	184.6	184.5	184.4
0.4000E-00	76.1	74.3	71.1	69.0	70.0	71.1	188.2	184.6	184.5	184.4
0.6000E-00	76.1	74.3	71.1	69.0	70.0	71.1	188.2	184.6	184.5	184.4
0.8000E-00	76.1	74.3	71.1	69.0	70.0	71.1	188.2	184.6	184.5	184.4

O/LAM.0	M	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.1	2.3
0.2000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	1.3	2.7
0.4000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.1	3.9	7.4	10.7
0.6000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.2	6.3	10.4	13.8
0.8000E-03		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.3	8.3	12.6	16.0
0.1000E-02		0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5	4.4	9.9	14.4	17.6
0.2000E-02		0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.1	1.6	9.1	15.3	19.4	21.7
0.4000E-02		0.0	0.1	0.2	0.5	0.9	1.6	2.4	3.4	4.5	14.6	20.4	23.0	24.0
0.6000E-02		0.0	0.1	0.4	1.0	1.8	3.0	4.3	5.7	7.1	17.9	22.6	24.2	24.6
0.8000E-02		0.0	0.2	0.7	1.6	2.9	4.4	6.1	7.7	9.3	20.1	23.9	24.7	24.8
0.1000E-01		0.1	0.4	1.1	2.3	4.0	5.8	7.7	9.5	11.2	21.8	24.6	25.0	25.0
0.2000E-01		0.3	1.4	3.5	6.1	8.9	11.5	13.8	15.9	17.8	25.8	26.2	26.0	25.8
0.4000E-01		1.2	4.3	8.5	12.6	16.2	19.4	22.0	24.1	25.7	28.9	28.2	27.9	27.7
0.6000E-01		2.4	7.5	13.0	17.9	22.0	25.3	27.8	29.5	30.5	31.1	30.3	30.0	29.8
0.8000E-01		3.9	10.7	17.2	22.7	27.0	30.1	32.1	33.3	34.0	33.2	32.4	32.1	31.9
0.1000E-00		5.6	13.8	21.1	27.1	31.3	34.1	35.6	36.3	36.6	35.1	34.4	34.1	33.9
0.2000E-00		14.7	28.2	37.9	43.4	45.8	46.4	46.3	46.0	45.5	43.3	42.7	42.5	42.4
0.3000E-00		24.0	40.8	50.2	53.6	54.2	53.8	53.2	52.6	52.1	49.9	49.5	49.3	49.2
0.4000E-00		32.8	51.4	59.1	60.7	60.5	59.5	58.8	58.1	57.6	55.6	55.2	55.1	55.0
0.5000E-00		41.1	60.1	65.9	66.7	65.4	64.4	63.6	62.9	62.4	60.6	60.2	60.1	60.0
0.6000E-00		48.8	67.4	71.3	70.9	69.7	68.6	67.8	67.2	66.7	65.0	64.7	64.6	64.5
0.7000E-00		55.9	73.4	75.9	74.8	73.5	72.4	71.6	71.0	70.6	69.0	68.7	68.6	68.6
0.8000E-00		62.4	78.4	79.7	78.3	77.0	75.9	75.1	74.6	74.1	72.7	72.4	72.3	72.3
0.9000E-00		68.3	82.7	83.1	81.5	80.1	79.1	78.3	77.8	77.4	76.0	75.8	75.7	75.6
0.1000E-01		73.6	86.5	86.2	84.4	83.0	82.0	81.3	80.8	80.4	79.1	78.9	78.8	78.7
0.1100E-01		78.5	89.8	88.9	87.1	85.7	84.7	84.0	83.5	83.2	82.0	81.7	81.6	81.6
0.1200E-01		82.9	92.7	91.4	89.5	88.2	87.2	86.6	86.1	85.8	84.6	84.4	84.3	84.3
0.1300E-01		86.8	95.3	93.7	91.8	90.5	89.6	89.0	88.5	88.2	87.1	86.9	86.8	86.7
0.1400E-01		90.4	97.7	95.9	94.0	92.7	91.8	91.2	90.7	90.4	89.4	89.2	89.1	89.1
0.1500E-01		93.6	99.9	97.8	95.9	94.7	93.8	93.2	92.8	92.5	91.5	91.3	91.3	91.2
0.1600E-01		96.5	101.8	99.7	97.8	96.6	95.8	95.2	94.8	94.5	93.5	93.4	93.3	93.3
0.1700E-01		99.2	103.6	101.4	99.5	98.3	97.6	97.0	96.6	96.4	95.4	95.3	95.2	95.2
0.1800E-01		101.6	105.3	103.0	101.2	100.0	99.3	98.7	98.4	98.1	97.2	97.1	97.0	97.0
0.1900E-01		103.8	106.8	104.5	102.7	101.6	100.9	100.4	100.0	99.8	98.9	98.7	98.7	98.7
0.2000E-01		105.8	108.3	105.9	104.2	103.1	102.4	101.9	101.5	101.3	100.5	100.3	100.3	100.3

Y= 0.

D/LAM.0	W	-20. LOG /T/	VLAM.0/W**2D= 0.300000E 00					Y= 0.				
		4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.1	2.4
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	3.4	5.9
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.1	4.0	7.5	10.7
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.2	6.4	10.4	13.7
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	3.4	8.4	12.5	15.6
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	4.6	10.0	14.1	16.9
0.2000E-02	0.0	0.1	0.1	0.1	0.3	0.5	0.8	1.2	9.2	15.0	18.2	19.8
0.4000E-02	0.0	0.1	0.2	0.5	1.0	2.5	3.5	4.6	14.3	18.9	20.5	21.0
0.6000E-02	0.0	0.1	0.4	1.0	1.9	3.1	4.4	5.8	17.1	20.3	21.1	21.3
0.8000E-02	0.1	0.3	0.8	1.7	3.0	4.6	6.2	7.8	18.8	21.0	21.3	21.4
0.1000E-01	0.1	0.4	1.2	2.4	4.1	6.0	7.8	9.6	19.9	21.3	21.5	21.5
0.2000E-01	0.3	1.4	3.6	6.3	9.0	11.5	13.7	15.6	22.1	22.1	21.9	21.8
0.4000E-01	1.2	4.4	8.6	12.6	15.9	18.5	20.5	21.9	23.7	23.7	23.1	22.9
0.6000E-01	2.5	7.7	13.0	17.5	20.8	23.1	24.5	25.3	25.1	24.7	24.5	24.4
0.8000E-01	4.1	10.8	16.9	21.5	24.6	26.4	27.3	27.6	26.6	26.1	26.0	25.9
0.1000E 00	5.8	13.8	20.4	25.0	27.6	28.9	29.4	29.3	28.0	27.6	27.5	27.4
0.2000E 00	14.8	26.9	33.7	36.3	36.9	36.8	36.4	36.0	34.3	34.0	33.9	33.9
0.4000E 00	23.6	37.1	42.0	42.8	42.5	41.9	41.4	41.0	39.5	39.2	39.1	39.1
0.6000E 00	31.6	44.7	47.7	47.5	46.8	46.1	45.6	45.2	44.9	43.6	43.1	43.5
0.8000E 00	38.6	50.4	52.0	51.3	50.4	49.7	49.2	48.9	47.6	47.4	47.3	47.3
0.1000E 01	44.7	54.9	55.4	54.4	53.5	52.9	52.4	52.1	50.9	50.7	50.7	50.6
0.2000E 01	50.0	58.6	58.3	57.2	56.3	55.7	55.2	54.9	53.8	53.7	53.6	53.6
0.4000E 01	54.6	61.6	60.9	59.7	58.8	58.2	57.8	57.5	56.5	56.3	56.3	56.3
0.6000E 01	58.5	64.1	63.1	61.9	61.0	60.5	60.1	59.8	58.9	58.7	58.7	58.7
0.8000E 01	61.9	66.3	65.1	63.9	63.1	62.5	62.1	61.9	61.0	60.9	60.8	60.8
0.1000E 02	64.8	68.3	66.9	65.7	64.9	64.4	64.0	63.8	63.0	62.9	62.8	62.8
0.2000E 02	67.3	70.0	68.5	67.4	66.6	66.1	65.8	65.5	64.8	64.7	64.6	64.6
0.4000E 02	69.5	71.5	70.0	68.9	68.1	67.7	67.3	67.1	66.4	66.3	66.3	66.2
0.6000E 02	71.4	72.9	71.3	70.2	69.5	69.1	68.8	68.6	67.9	67.8	67.8	67.8
0.8000E 02	73.0	74.1	72.6	71.5	70.8	70.4	70.1	69.9	69.3	69.2	69.2	69.2
0.1000E 03	74.5	75.2	73.7	72.7	72.0	71.6	71.4	71.2	70.6	70.5	70.4	70.4
0.2000E 03	75.8	76.2	74.7	73.8	73.1	72.8	72.5	72.3	71.7	71.7	71.6	71.6
0.4000E 03	77.0	77.1	75.7	74.7	74.2	73.8	73.5	73.4	72.8	72.8	72.7	72.7
0.6000E 03	78.0	78.0	76.6	75.7	75.1	74.8	74.5	74.4	73.8	73.8	73.7	73.7
0.8000E 03	79.0	78.8	77.4	76.5	76.0	75.6	75.4	75.3	74.8	74.7	74.7	74.7

D/LAM.0	M	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.2	2.5
0.2000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	3.5	6.0
0.4000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.2	4.1	7.6	10.7
0.6000E-03		0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.3	6.5	10.4	13.4
0.8000E-03		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.5	8.4	12.4	15.0
0.1000E-02		0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5	4.7	10.0	13.8	16.1
0.2000E-02		0.0	0.0	0.1	0.1	0.3	0.5	0.8	1.2	1.7	9.2	14.5	17.0	18.1
0.4000E-02		0.0	0.1	0.2	0.5	1.0	1.7	2.6	3.6	4.7	14.0	17.5	18.5	18.8
0.6000E-02		0.0	0.2	0.5	1.1	2.0	3.2	4.5	5.9	7.3	16.2	18.4	16.9	19.0
0.8000E-02		0.1	0.3	0.8	1.8	3.1	4.7	6.3	7.9	9.4	17.5	18.8	19.0	19.1
0.1000E-01		0.1	0.4	1.2	2.5	4.2	6.1	7.9	9.6	11.1	18.2	19.0	19.1	19.1
0.2000E-01		0.3	1.5	3.7	6.4	9.0	11.4	13.4	15.0	16.3	19.5	19.5	19.4	19.3
0.4000E-01		1.3	4.6	8.7	12.4	15.4	17.5	19.0	19.8	20.4	20.6	20.3	20.1	20.1
0.6000E-01		2.6	7.8	12.3	16.8	19.4	21.0	21.8	22.1	22.2	21.6	21.3	21.1	21.1
0.8000E-01		4.2	10.8	16.4	20.2	22.3	23.2	23.6	23.7	23.6	22.7	22.4	22.3	22.2
0.1000E 00		5.9	13.6	19.5	22.9	24.4	25.0	25.1	25.0	24.8	23.8	23.5	23.4	23.4
0.2000E 00		14.8	33.3	29.9	31.1	31.1	30.8	30.4	30.1	29.9	29.0	28.8	28.7	28.7
0.3000E 00		22.9	33.3	35.8	35.8	35.4	34.9	34.5	34.2	34.0	33.2	33.1	33.0	33.0
0.4000E 00		29.9	38.9	39.9	39.4	38.8	38.3	37.9	37.7	37.5	36.8	36.6	36.6	36.6
0.5000E 00		35.7	42.9	43.0	42.3	41.6	41.2	40.8	40.6	40.4	39.8	39.7	39.6	39.6
0.6000E 00		40.5	46.0	45.6	44.8	44.1	43.7	43.4	43.1	43.0	42.4	42.3	42.3	42.3
0.7000E 00		44.3	48.5	47.8	46.9	46.3	45.9	45.6	45.4	45.2	44.7	44.6	44.6	44.6
0.8000E 00		47.5	50.6	49.4	48.8	48.2	47.8	47.5	47.3	47.2	46.7	46.7	46.6	46.6
0.9000E 00		50.1	52.3	51.3	50.4	49.9	49.5	49.3	49.1	49.0	48.5	48.5	48.4	48.4
0.1000E 01		52.3	53.2	52.7	51.9	51.4	51.0	50.8	50.6	50.5	50.1	50.1	50.0	50.0
0.1100E 01		54.1	55.1	54.0	53.2	52.7	52.4	52.2	52.0	51.9	51.6	51.5	51.5	51.5
0.1200E 01		55.4	56.2	55.1	54.4	53.9	53.6	53.4	53.3	53.2	52.9	52.8	52.8	52.8
0.1300E 01		56.9	57.2	56.2	55.5	55.0	54.7	54.6	54.4	54.3	54.0	53.9	53.9	53.9
0.1400E 01		58.1	58.1	57.1	56.4	56.0	55.7	55.6	55.4	55.4	55.1	55.0	55.0	55.0
0.1500E 01		59.0	58.9	57.9	57.3	56.9	56.6	56.5	56.4	56.3	56.0	55.9	55.9	55.9
0.1600E 01		59.9	59.6	58.7	58.1	57.7	57.5	57.3	57.2	57.1	56.9	56.8	56.8	56.8
0.1700E 01		60.6	60.3	59.3	58.8	58.4	58.2	58.1	58.0	57.9	57.6	57.6	57.6	57.6
0.1800E 01		61.3	60.8	60.0	59.4	58.9	58.9	58.7	58.6	58.6	58.3	58.3	58.3	58.3
0.1900E 01		61.8	61.4	60.5	60.0	59.7	59.5	59.4	59.3	59.2	59.0	58.9	58.9	58.9
0.2000E 01		62.3	61.8	61.0	60.5	60.2	60.1	59.9	59.8	59.8	59.6	59.5	59.5	59.5

Y= 0.

VLAM.0/W\*\*2D= 0.400000E 00

-20. LOG /T'

D/LAM.0	M	-20. LOG /T/	VLAM.0/W**2D= 0.500000E 00										Y=	G.	
			2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.2	2.6
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	3.6	6.1
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.2	4.2	7.7	10.6
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.4	6.6	10.3	13.0
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.6	8.5	12.1	14.4
0.1000E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.5	4.8	9.9	13.3	15.2
0.2000E-02	0.0	0.0	0.1	0.1	0.1	0.1	0.3	0.5	0.8	1.3	1.8	9.2	14.0	15.9	16.7
0.4000E-02	0.0	0.1	0.2	0.5	1.0	1.0	1.0	1.8	2.7	3.7	4.8	13.5	16.3	17.0	17.2
0.6000E-02	0.0	0.2	0.5	1.1	2.1	3.3	3.3	3.3	4.6	6.0	7.4	15.3	16.9	17.2	17.3
0.8000E-02	0.1	0.3	0.8	1.8	3.2	4.8	6.4	6.4	8.0	8.0	9.4	16.3	17.2	17.3	17.3
0.1000E-01	0.1	0.4	1.3	2.6	4.3	6.2	7.9	6.2	7.9	9.6	11.0	16.8	17.3	17.4	17.4
0.2000E-01	0.4	1.6	3.8	6.5	9.0	11.3	13.0	11.3	13.0	14.4	15.4	17.6	17.6	17.6	17.5
0.4000E-01	1.3	4.7	8.7	12.2	14.8	16.5	17.5	16.5	17.5	18.1	18.4	18.4	18.2	18.1	18.0
0.6000E-01	2.7	7.8	12.6	16.1	18.1	19.1	19.1	19.1	19.1	19.7	19.7	19.1	18.9	18.8	18.8
0.8000E-01	4.3	10.8	15.8	18.8	20.2	20.8	20.9	20.8	20.9	20.8	20.7	20.0	19.8	19.7	19.7
0.1000E 00	6.0	13.4	18.4	20.9	21.8	22.0	22.0	22.0	22.0	21.8	21.7	20.9	20.7	20.7	20.6
0.2000E 00	14.6	23.6	26.7	27.1	27.0	26.7	26.4	26.7	26.4	26.2	26.0	25.3	25.2	25.2	25.1
0.3000E 00	22.1	30.0	31.2	31.0	30.5	30.2	29.9	30.2	29.9	29.7	29.5	29.0	28.8	28.8	28.8
0.4000E 00	28.1	34.2	34.4	33.9	33.4	33.0	32.8	32.8	32.8	32.6	32.4	31.9	31.9	31.8	31.8
0.5000E 00	32.8	37.2	36.9	36.2	35.8	35.4	35.2	35.0	34.9	34.9	34.9	34.5	34.4	34.3	34.3
0.6000E 00	36.5	39.5	38.9	38.2	37.8	37.5	37.3	37.1	37.0	36.9	36.8	36.6	36.5	36.5	36.5
0.7000E 00	39.3	41.4	40.6	40.0	39.5	39.2	39.0	38.9	38.9	38.9	38.8	38.5	38.4	38.4	38.4
0.8000E 00	41.6	42.9	42.1	41.5	41.0	40.8	40.6	40.5	40.4	40.5	40.4	40.1	40.0	40.0	40.0
0.9000E 00	43.4	44.2	43.3	42.7	42.4	42.1	42.0	41.8	41.7	41.8	41.7	41.5	41.4	41.4	41.4
0.1000E 01	44.8	45.3	44.4	43.9	43.5	43.3	43.1	43.0	43.0	43.0	43.0	42.7	42.6	42.6	42.6
0.1200E 01	46.1	46.2	45.4	44.9	44.5	44.3	44.2	44.1	44.0	44.1	44.0	43.8	43.7	43.7	43.7
0.1400E 01	47.1	47.0	46.2	45.7	45.4	45.2	45.1	45.0	45.0	45.0	45.0	44.7	44.7	44.7	44.7
0.1600E 01	48.6	48.4	47.6	47.2	46.9	46.8	46.7	46.6	46.5	46.6	46.5	46.3	46.3	46.3	46.3
0.1800E 01	49.2	48.9	48.2	47.8	47.6	47.4	47.3	47.2	47.2	47.2	47.2	47.0	47.0	47.0	47.0
0.2000E 01	49.8	49.4	48.7	48.4	48.1	48.0	47.9	47.8	47.8	47.8	47.8	47.6	47.6	47.6	47.6
0.2200E 01	50.2	49.8	49.2	48.8	48.6	48.5	48.4	48.3	48.3	48.3	48.3	48.1	48.1	48.1	48.1
0.2400E 01	50.6	50.2	49.6	49.3	49.1	48.9	48.9	48.8	48.8	48.8	48.8	48.6	48.6	48.6	48.6
0.2600E 01	50.9	50.5	50.0	49.7	49.5	49.4	49.3	49.2	49.2	49.2	49.2	49.1	49.0	49.0	49.0
0.2800E 01	51.2	50.8	50.3	50.0	49.8	49.7	49.7	49.6	49.6	49.6	49.6	49.4	49.4	49.4	49.4



D/LAM.0	W	-20. LOG /T/	VLAM.0/W**20=	0.700000E 00	Y=	0.
0.1000E-03	0.0	0.0	0.0	0.0	0.5	50.00
0.2000E-03	0.0	0.0	0.0	0.0	1.3	2.7
0.4000E-03	0.0	0.0	0.0	0.4	1.6	3.8
0.6000E-03	0.0	0.0	0.0	1.3	4.4	7.7
0.8000E-03	0.0	0.0	0.0	2.6	6.7	10.3
0.1000E-02	0.0	0.0	0.1	3.8	8.4	12.1
0.2000E-02	0.0	0.1	0.2	5.0	9.7	13.1
0.4000E-02	0.0	0.2	0.4	9.1	12.4	13.6
0.6000E-02	0.0	0.3	0.6	12.5	14.1	14.5
0.8000E-02	0.0	0.6	1.1	13.7	14.3	14.7
0.1000E-01	0.1	1.2	2.2	14.6	14.6	14.8
0.2000E-01	0.1	2.8	4.9	14.6	14.8	14.8
0.4000E-01	0.1	4.5	6.3	14.6	14.8	14.8
0.6000E-01	0.4	6.6	7.9	14.6	14.8	14.8
0.8000E-01	0.4	8.9	10.8	15.0	15.0	14.9
0.1000E 00	1.4	11.6	12.2	15.4	15.3	15.3
0.2000E 00	2.9	14.5	15.2	15.4	15.8	15.7
0.4000E 00	4.5	16.4	16.3	16.4	16.4	16.3
0.6000E 00	6.2	17.7	17.1	17.1	17.0	17.0
0.8000E 00	10.5	18.0	17.9	17.7	17.0	17.0
0.1000E 00	12.8	21.5	21.3	21.0	20.4	20.4
0.2000E 00	14.1	24.6	23.9	23.7	23.3	23.2
0.4000E 00	20.2	26.7	26.2	25.9	25.5	25.5
0.6000E 00	24.6	28.5	28.0	27.7	27.4	27.4
0.8000E 00	27.7	29.9	29.4	29.2	28.9	28.9
0.1000E 00	29.9	31.1	30.7	30.5	30.2	30.2
0.2000E 00	31.5	32.1	31.6	31.5	31.3	31.3
0.4000E 00	33.0	32.9	32.5	32.4	32.2	32.2
0.6000E 00	33.8	33.6	33.3	33.1	33.0	33.0
0.8000E 00	34.4	34.2	33.9	33.8	33.6	33.6
0.1000E 01	35.1	35.0	34.5	34.4	34.2	34.2
0.2000E 01	35.6	35.2	34.9	34.8	34.7	34.7
0.4000E 01	36.1	35.5	35.3	35.2	35.1	35.1
0.6000E 01	36.4	35.9	35.7	35.6	35.5	35.5
0.8000E 01	36.7	36.2	36.0	35.9	35.8	35.8
0.1000E 01	37.1	36.6	36.3	36.2	36.1	36.1
0.2000E 01	37.3	36.8	36.5	36.4	36.3	36.3
0.4000E 01	37.5	37.0	36.7	36.6	36.5	36.5
0.6000E 01	37.6	37.1	36.9	36.8	36.7	36.7
0.8000E 01	37.6	37.1	36.9	36.8	36.7	36.7



D/LAM.0	M	-20. LOG /T/	VLAM.0/M**2D=	0.800000E 00	Y=	0.
0.1000E-03	0.0	0.0	0.0	0.0	0.5	50.00
0.2000E-03	0.0	0.0	0.0	0.0	1.4	2.8
0.4000E-03	0.0	0.0	0.0	0.0	1.7	6.2
0.6000E-03	0.0	0.0	0.0	0.1	4.4	10.0
0.8000E-03	0.0	0.0	0.1	0.2	6.7	11.7
0.1000E-02	0.0	0.0	0.2	0.3	8.3	12.5
0.2000E-02	0.0	0.0	0.3	0.4	9.5	13.0
0.4000E-02	0.0	0.1	0.4	0.6	11.9	13.3
0.6000E-02	0.0	0.2	0.9	1.4	12.3	13.6
0.8000E-02	0.0	0.3	2.9	4.0	13.5	13.8
0.1000E-01	0.1	0.6	4.9	6.2	13.7	13.9
0.2000E-01	0.1	1.3	6.5	7.9	13.8	13.9
0.4000E-01	0.1	2.0	7.9	9.1	13.9	13.9
0.6000E-01	0.1	2.8	9.3	10.4	13.9	13.9
0.8000E-01	0.1	3.4	11.8	13.1	14.0	14.0
0.1000E-00	0.4	4.1	14.2	14.5	14.2	14.2
0.2000E-00	0.4	4.6	15.1	15.1	14.3	14.6
0.4000E-00	0.6	5.3	15.8	15.6	15.2	15.1
0.6000E-00	0.8	6.0	16.4	16.2	15.7	15.7
0.8000E-00	1.0	6.6	16.5	16.2	15.7	15.7
0.1000E-00	1.2	7.1	16.6	16.2	15.7	15.7
0.2000E-00	1.4	7.6	16.6	16.2	15.7	15.7
0.4000E-00	1.7	8.1	16.6	16.2	15.7	15.7
0.6000E-00	2.0	8.6	16.6	16.2	15.7	15.7
0.8000E-00	2.3	9.1	16.6	16.2	15.7	15.7
0.1000E-00	2.6	9.6	16.6	16.2	15.7	15.7
0.2000E-00	2.9	10.1	16.6	16.2	15.7	15.7
0.4000E-00	3.2	10.6	16.6	16.2	15.7	15.7
0.6000E-00	3.5	11.1	16.6	16.2	15.7	15.7
0.8000E-00	3.8	11.6	16.6	16.2	15.7	15.7
0.1000E-00	4.1	12.1	16.6	16.2	15.7	15.7
0.2000E-00	4.4	12.6	16.6	16.2	15.7	15.7
0.4000E-00	4.7	13.1	16.6	16.2	15.7	15.7
0.6000E-00	5.0	13.6	16.6	16.2	15.7	15.7
0.8000E-00	5.3	14.1	16.6	16.2	15.7	15.7
0.1000E-00	5.6	14.6	16.6	16.2	15.7	15.7
0.2000E-00	5.9	15.1	16.6	16.2	15.7	15.7
0.4000E-00	6.2	15.6	16.6	16.2	15.7	15.7
0.6000E-00	6.5	16.1	16.6	16.2	15.7	15.7
0.8000E-00	6.8	16.6	16.6	16.2	15.7	15.7
0.1000E-00	7.1	17.1	16.6	16.2	15.7	15.7
0.2000E-00	7.4	17.6	16.6	16.2	15.7	15.7
0.4000E-00	7.7	18.1	16.6	16.2	15.7	15.7
0.6000E-00	8.0	18.6	16.6	16.2	15.7	15.7
0.8000E-00	8.3	19.1	16.6	16.2	15.7	15.7
0.1000E-00	8.6	19.6	16.6	16.2	15.7	15.7
0.2000E-00	8.9	20.1	16.6	16.2	15.7	15.7
0.4000E-00	9.2	20.6	16.6	16.2	15.7	15.7
0.6000E-00	9.5	21.1	16.6	16.2	15.7	15.7
0.8000E-00	9.8	21.6	16.6	16.2	15.7	15.7
0.1000E-00	10.1	22.1	16.6	16.2	15.7	15.7
0.2000E-00	10.4	22.6	16.6	16.2	15.7	15.7
0.4000E-00	10.7	23.1	16.6	16.2	15.7	15.7
0.6000E-00	11.0	23.6	16.6	16.2	15.7	15.7
0.8000E-00	11.3	24.1	16.6	16.2	15.7	15.7
0.1000E-00	11.6	24.6	16.6	16.2	15.7	15.7
0.2000E-00	11.9	25.1	16.6	16.2	15.7	15.7
0.4000E-00	12.2	25.6	16.6	16.2	15.7	15.7
0.6000E-00	12.5	26.1	16.6	16.2	15.7	15.7
0.8000E-00	12.8	26.6	16.6	16.2	15.7	15.7
0.1000E-00	13.1	27.1	16.6	16.2	15.7	15.7
0.2000E-00	13.4	27.6	16.6	16.2	15.7	15.7
0.4000E-00	13.7	28.1	16.6	16.2	15.7	15.7
0.6000E-00	14.0	28.6	16.6	16.2	15.7	15.7
0.8000E-00	14.3	29.1	16.6	16.2	15.7	15.7
0.1000E-00	14.6	29.6	16.6	16.2	15.7	15.7
0.2000E-00	14.9	30.1	16.6	16.2	15.7	15.7
0.4000E-00	15.2	30.6	16.6	16.2	15.7	15.7
0.6000E-00	15.5	31.1	16.6	16.2	15.7	15.7
0.8000E-00	15.8	31.6	16.6	16.2	15.7	15.7
0.1000E-00	16.1	32.1	16.6	16.2	15.7	15.7
0.2000E-00	16.4	32.6	16.6	16.2	15.7	15.7
0.4000E-00	16.7	33.1	16.6	16.2	15.7	15.7
0.6000E-00	17.0	33.6	16.6	16.2	15.7	15.7
0.8000E-00	17.3	34.1	16.6	16.2	15.7	15.7
0.1000E-00	17.6	34.6	16.6	16.2	15.7	15.7
0.2000E-00	17.9	35.1	16.6	16.2	15.7	15.7
0.4000E-00	18.2	35.6	16.6	16.2	15.7	15.7
0.6000E-00	18.5	36.1	16.6	16.2	15.7	15.7
0.8000E-00	18.8	36.6	16.6	16.2	15.7	15.7
0.1000E-00	19.1	37.1	16.6	16.2	15.7	15.7
0.2000E-00	19.4	37.6	16.6	16.2	15.7	15.7
0.4000E-00	19.7	38.1	16.6	16.2	15.7	15.7
0.6000E-00	20.0	38.6	16.6	16.2	15.7	15.7
0.8000E-00	20.3	39.1	16.6	16.2	15.7	15.7
0.1000E-00	20.6	39.6	16.6	16.2	15.7	15.7
0.2000E-00	20.9	40.1	16.6	16.2	15.7	15.7
0.4000E-00	21.2	40.6	16.6	16.2	15.7	15.7
0.6000E-00	21.5	41.1	16.6	16.2	15.7	15.7
0.8000E-00	21.8	41.6	16.6	16.2	15.7	15.7
0.1000E-00	22.1	42.1	16.6	16.2	15.7	15.7
0.2000E-00	22.4	42.6	16.6	16.2	15.7	15.7
0.4000E-00	22.7	43.1	16.6	16.2	15.7	15.7
0.6000E-00	23.0	43.6	16.6	16.2	15.7	15.7
0.8000E-00	23.3	44.1	16.6	16.2	15.7	15.7
0.1000E-00	23.6	44.6	16.6	16.2	15.7	15.7
0.2000E-00	23.9	45.1	16.6	16.2	15.7	15.7
0.4000E-00	24.2	45.6	16.6	16.2	15.7	15.7
0.6000E-00	24.5	46.1	16.6	16.2	15.7	15.7
0.8000E-00	24.8	46.6	16.6	16.2	15.7	15.7
0.1000E-00	25.1	47.1	16.6	16.2	15.7	15.7
0.2000E-00	25.4	47.6	16.6	16.2	15.7	15.7
0.4000E-00	25.7	48.1	16.6	16.2	15.7	15.7
0.6000E-00	26.0	48.6	16.6	16.2	15.7	15.7
0.8000E-00	26.3	49.1	16.6	16.2	15.7	15.7
0.1000E-00	26.6	49.6	16.6	16.2	15.7	15.7
0.2000E-00	26.9	50.1	16.6	16.2	15.7	15.7
0.4000E-00	27.2	50.6	16.6	16.2	15.7	15.7
0.6000E-00	27.5	51.1	16.6	16.2	15.7	15.7
0.8000E-00	27.8	51.6	16.6	16.2	15.7	15.7
0.1000E-00	28.1	52.1	16.6	16.2	15.7	15.7
0.2000E-00	28.4	52.6	16.6	16.2	15.7	15.7
0.4000E-00	28.7	53.1	16.6	16.2	15.7	15.7
0.6000E-00	29.0	53.6	16.6	16.2	15.7	15.7
0.8000E-00	29.3	54.1	16.6	16.2	15.7	15.7
0.1000E-00	29.6	54.6	16.6	16.2	15.7	15.7
0.2000E-00	29.9	55.1	16.6	16.2	15.7	15.7
0.4000E-00	30.2	55.6	16.6	16.2	15.7	15.7
0.6000E-00	30.5	56.1	16.6	16.2	15.7	15.7
0.8000E-00	30.8	56.6	16.6	16.2	15.7	15.7
0.1000E-00	31.1	57.1	16.6	16.2	15.7	15.7
0.2000E-00	31.4	57.6	16.6	16.2	15.7	15.7
0.4000E-00	31.7	58.1	16.6	16.2	15.7	15.7
0.6000E-00	32.0	58.6	16.6	16.2	15.7	15.7
0.8000E-00	32.3	59.1	16.6	16.2	15.7	15.7
0.1000E-00	32.6	59.6	16.6	16.2	15.7	15.7
0.2000E-00	32.9	60.1	16.6	16.2	15.7	15.7
0.4000E-00	33.2	60.6	16.6	16.2	15.7	15.7
0.6000E-00	33.5	61.1	16.6	16.2	15.7	15.7
0.8000E-00	33.8	61.6	16.6	16.2	15.7	15.7
0.1000E-00	34.1	62.1	16.6	16.2	15.7	15.7
0.2000E-00	34.4	62.6	16.6	16.2	15.7	15.7
0.4000E-00	34.7	63.1	16.6	16.2	15.7	15.7
0.6000E-00	35.0	63.6	16.6	16.2	15.7	15.7
0.8000E-00	35.3	64.1	16.6	16.2	15.7	15.7
0.1000E-00	35.6	64.6	16.6	16.2	15.7	15.7
0.2000E-00	35.9	65.1	16.6	16.2	15.7	15.7
0.4000E-00	36.2	65.6	16.6	16.2	15.7	15.7
0.6000E-00	36.5	66.1	16.6	16.2	15.7	15.7
0.8000E-00	36.8	66.6	16.6	16.2	15.7	15.7
0.1000E-00	37.1	67.1	16.6	16.2	15.7	15.7
0.2000E-00	37.4	67.6	16.6	16.2	15.7	15.7
0.4000E-00	37.7	68.1	16.6	16.2	15.7	15.7
0.6000E-00	38.0	68.6	16.6	16.2	15.7	15.7
0.8000E-00	38.3	69.1	16.6	16.2	15.7	15.7
0.1000E-00	38.6	69.6	16.6	16.2	15.7	15.7
0.2000E-00	38.9	70.1	16.6	16.2	15.7	15.7
0.4000E-00	39.2	70.6	16.6	16.2	15.7	15.7
0.6000E-00	39.5	71.1	16.6	16.2	15.7	15.7
0.8000E-00	39.8	71.6	16.6	16.2	15.7	15.7
0.1000E-00	40.1	72.1	16.6	16.2	15.7	15.7
0.2000E-00	40.4	72.6	16.6	16.2	15.7	15.7
0.4000E-00	40.7	73.1	16.6	16.2	15.7	15.7
0.6000E-00	41.0	73.6	16.6	16.2	15.7	15.7
0.8000E-00	41.3	74.1	16.6	16.2	15.7	15.7
0.1000E-00	41.6	74.6	16.6	16.2	15.7	15.7
0.2000E-00	41.9	75.1	16.6	16.2	15.7	15.7
0.4000E-00	42.2	75.6	16.6	16.2	15.7	15.7
0.6000E-00	42.5	76.1	16.6	16.2	15.7	15.7
0.8000E-00	42.8	76.6	16.6	16.2	15.7	15.7
0.1000E-00	43.1	77.1	16.6	16.2	15.7	15.7
0.2000E-00	43.4	77.6	16.6	16.2	15.7	15.7
0.4000E-00	43.7	78.1	16.6	16.2	15.7	15.7
0.6000E-00	44.0	78.6	16.6	16.2	15.7	15.7
0.8000E-00	44.3	79.1	16.6	16.2	15.7	15.7
0.1000E-0						

D/LAM.0	W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.4	2.8
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.7	3.9	6.3
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.4	4.5	7.6	9.8
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	3.9	8.3	10.8	11.3
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	5.1	9.4	11.5	12.0
0.1000E-02	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	8.8	11.8	12.6	12.9
0.2000E-02	0.0	0.0	0.1	0.2	0.2	0.3	0.6	1.0	1.5	2.1	11.6	12.7	13.0	13.0
0.4000E-02	0.0	0.1	0.3	0.6	1.3	2.2	3.6	4.9	6.2	7.4	12.4	13.0	13.0	13.1
0.6000E-02	0.0	0.2	0.6	1.3	2.9	4.6	6.3	7.8	9.1	9.0	12.7	13.1	13.1	13.1
0.8000E-02	0.1	0.3	1.0	2.1	3.5	5.1	7.1	8.5	9.1	10.1	12.9	13.1	13.1	13.1
0.1000E-01	0.1	0.5	1.5	4.1	6.6	8.7	10.3	11.4	12.1	12.5	13.2	13.2	13.2	13.1
0.2000E-01	0.4	1.8	5.0	8.5	11.0	12.4	13.1	13.4	13.5	13.6	13.5	13.4	13.4	13.4
0.4000E-01	1.5	5.0	7.8	11.4	13.1	13.8	14.1	14.1	14.1	14.1	13.8	13.7	13.7	13.7
0.6000E-01	3.0	7.8	10.2	13.2	14.4	14.7	14.7	14.7	14.6	14.5	14.2	14.2	14.1	14.1
0.8000E-01	4.6	10.2	12.1	14.6	15.3	15.4	15.3	15.2	15.1	15.0	14.7	14.6	14.6	14.6
0.1000E 00	6.3	12.1	14.6	16.4	17.3	17.4	17.3	17.2	17.1	17.0	16.9	16.8	16.7	16.6
0.2000E 00	13.4	17.9	18.4	18.3	18.3	18.1	17.9	17.8	17.7	17.6	17.4	17.3	17.3	17.3
0.3000E 00	18.3	20.9	20.8	20.5	20.5	20.3	20.1	20.0	19.9	19.9	19.7	19.6	19.6	19.6
0.4000E 00	21.5	22.9	22.6	22.2	22.0	22.0	21.9	21.8	21.7	21.7	21.5	21.5	21.5	21.4
0.5000E 00	23.6	24.3	23.9	23.6	23.4	23.4	23.3	23.2	23.1	23.1	22.9	22.9	22.9	22.9
0.6000E 00	25.0	25.3	24.9	24.6	24.5	24.5	24.4	24.3	24.2	24.2	24.1	24.0	24.0	24.0
0.7000E 00	26.1	26.1	25.7	25.5	25.3	25.3	25.2	25.2	25.1	25.1	25.0	25.0	25.0	25.0
0.8000E 00	26.9	26.8	26.4	26.2	26.1	26.1	26.0	25.9	25.9	25.8	25.7	25.7	25.7	25.7
0.9000E 00	27.4	27.3	27.0	26.8	26.6	26.6	26.6	26.5	26.5	26.5	26.4	26.4	26.3	26.3
0.1000E 01	27.9	27.7	27.4	27.2	27.1	27.1	27.1	27.0	27.0	27.0	26.9	26.9	26.9	26.9
0.1200E 01	28.3	28.1	27.8	27.6	27.5	27.5	27.5	27.4	27.4	27.4	27.3	27.3	27.3	27.3
0.1300E 01	28.5	28.3	28.1	27.9	27.8	27.8	27.8	27.8	27.7	27.7	27.7	27.7	27.6	27.6
0.1400E 01	28.8	28.6	28.3	28.2	28.1	28.1	28.1	28.1	28.0	28.0	28.0	28.0	28.0	28.0
0.1500E 01	29.0	28.8	28.6	28.5	28.4	28.4	28.3	28.3	28.3	28.3	28.2	28.2	28.2	28.2
0.1600E 01	29.1	28.9	28.8	28.6	28.6	28.6	28.5	28.5	28.5	28.5	28.4	28.4	28.4	28.4
0.1700E 01	29.3	29.1	28.9	28.8	28.8	28.8	28.7	28.7	28.7	28.7	28.6	28.6	28.6	28.6
0.1800E 01	29.4	29.2	29.1	29.0	28.9	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.8	28.8
0.1900E 01	29.5	29.3	29.2	29.1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
0.2000E 01	29.6	29.4	29.3	29.2	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0
0.2000E 01	29.6	29.5	29.4	29.3	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2

Y= 0.

VLAM.0/W\*\*2D= 0.900000E 00

-20. LOG /T/

D/LAM.0	W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.5	2.9
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	1.5	2.9
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.5	4.5	4.0	6.3
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	2.7	6.7	7.6	9.6
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.0	8.2	9.4	10.9
0.1000E-02	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	5.1	9.2	10.4	11.5
0.2000E-02	0.0	0.0	0.1	0.2	0.2	0.3	0.6	1.0	1.5	2.1	8.7	11.3	11.0	11.8
0.4000E-02	0.0	0.1	0.3	0.5	0.5	1.2	2.1	3.0	4.1	5.1	11.1	12.1	12.3	12.3
0.6000E-02	0.0	0.2	0.6	1.3	1.3	2.4	3.6	5.0	6.2	7.3	11.8	12.3	12.3	12.4
0.8000E-02	0.1	0.3	1.0	2.1	2.1	3.6	5.1	6.5	7.8	8.8	12.1	12.3	12.4	12.4
0.1000E-01	0.1	0.5	1.5	3.0	3.0	4.7	6.3	7.8	8.7	9.8	12.2	12.4	12.4	12.4
0.2000E-01	0.4	1.8	4.2	6.6	6.6	8.6	10.0	11.0	11.5	11.9	12.5	12.5	12.4	12.4
0.4000E-01	1.6	5.0	8.4	10.6	10.6	11.8	12.4	12.7	12.8	12.8	12.7	12.6	12.6	12.6
0.6000E-01	3.1	7.8	11.0	12.5	12.5	13.1	13.2	13.3	13.3	13.2	13.0	12.9	12.9	12.9
0.1000E 00	6.3	11.7	13.8	14.3	14.3	14.4	14.3	14.2	14.1	14.0	13.8	13.7	13.7	13.7
0.2000E 00	13.0	16.8	17.1	17.0	16.8	16.8	16.6	16.5	16.4	16.4	16.2	16.1	16.1	16.1
0.3000E 00	17.4	19.4	19.3	19.0	18.8	18.7	18.6	18.5	18.5	18.5	18.3	18.3	18.2	18.2
0.4000E 00	20.1	21.1	20.8	20.6	20.4	20.4	20.3	20.2	20.1	20.1	19.9	19.9	19.9	19.9
0.5000E 00	21.9	22.3	22.0	21.7	21.6	21.6	21.5	21.4	21.4	21.3	21.2	21.2	21.2	21.2
0.6000E 00	23.1	23.2	22.9	22.7	22.5	22.4	22.4	22.4	22.3	22.3	22.2	22.2	22.2	22.2
0.7000E 00	24.0	24.5	24.2	24.0	23.9	23.9	23.8	23.8	23.7	23.7	23.6	23.6	23.6	23.6
0.8000E 00	24.6	24.9	24.6	24.5	24.4	24.4	24.3	24.3	24.3	24.2	24.2	24.2	24.1	24.1
0.9000E 00	25.1	25.2	25.0	24.9	24.8	24.8	24.7	24.7	24.7	24.6	24.6	24.6	24.6	24.6
0.1000E 01	25.4	25.2	25.3	25.2	25.1	25.1	25.1	25.0	25.0	25.0	24.9	24.9	24.9	24.9
0.1100E 01	25.7	25.5	25.6	25.4	25.4	25.4	25.3	25.3	25.3	25.3	25.2	25.2	25.2	25.2
0.1200E 01	25.9	25.8	25.8	25.7	25.6	25.6	25.6	25.5	25.5	25.5	25.5	25.5	25.5	25.5
0.1300E 01	26.1	25.9	25.9	25.9	25.8	25.8	25.8	25.7	25.7	25.7	25.7	25.7	25.7	25.7
0.1400E 01	26.3	26.1	26.1	26.0	26.0	26.0	26.0	25.9	25.9	25.9	25.8	25.8	25.8	25.8
0.1500E 01	26.4	26.2	26.2	26.1	26.1	26.1	26.1	26.0	26.0	26.0	26.0	26.0	26.0	26.0
0.1600E 01	26.5	26.3	26.3	26.3	26.3	26.3	26.2	26.2	26.2	26.2	26.1	26.1	26.1	26.1
0.1700E 01	26.6	26.4	26.4	26.4	26.4	26.4	26.3	26.3	26.3	26.3	26.2	26.2	26.2	26.2
0.1800E 01	26.7	26.5	26.5	26.5	26.5	26.5	26.4	26.4	26.4	26.4	26.3	26.3	26.3	26.3
0.1900E 01	26.7	26.6	26.6	26.6	26.6	26.6	26.5	26.5	26.5	26.5	26.4	26.4	26.4	26.4
0.2000E 01	26.8	26.7	26.7	26.7	26.7	26.7	26.6	26.6	26.6	26.6	26.5	26.5	26.5	26.5

Y= 0.

VLAM.0/W\*\*2D= 0.100000E 01

-20. LOG /T/

D/LAM.0	M	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.2000E-04	0.0	0.1	0.2	0.4	0.7	1.0	1.4	4.1	9.5	14.2	18.0	21.1	23.8	26.1
0.2000E-04	0.1	0.2	0.8	1.4	2.2	3.1	4.1	8.6	15.2	20.1	23.9	27.1	29.8	32.1
0.4000E-04	0.4	0.8	1.6	2.7	3.9	5.2	6.6	14.2	21.1	26.1	30.0	33.1	35.8	38.2
0.6000E-04	0.9	1.6	2.6	4.0	5.5	7.1	8.6	20.1	27.1	32.1	35.1	36.7	39.4	41.8
0.8000E-04	1.4	2.6	4.0	5.5	7.0	8.7	10.4	22.0	29.1	34.1	38.0	41.3	44.0	46.4
0.1000E-03	2.1	3.6	5.3	7.0	8.7	10.4	12.4	28.1	35.3	40.4	44.5	47.9	50.9	53.5
0.2000E-03	5.4	7.9	10.2	12.4	14.3	16.1	18.2	34.4	41.9	47.5	52.1	56.2	59.9	63.3
0.4000E-03	10.4	13.3	15.9	18.2	20.3	22.1	24.0	38.4	46.4	52.7	58.1	63.1	67.7	72.2
0.6000E-03	13.3	16.8	19.5	21.8	23.9	25.7	28.4	41.5	50.2	57.3	63.7	69.7	75.4	80.9
0.8000E-03	16.2	19.3	22.0	24.4	26.5	28.6	30.5	44.2	53.7	61.8	69.2	76.2	83.0	89.6
0.1000E-02	18.1	21.3	24.0	26.4	28.6	30.5	32.1	55.8	70.2	83.5	96.5	108.9	121.0	132.8
0.2000E-02	24.5	27.9	30.9	33.5	35.9	38.1	39.7	77.5	103.0	127.2	150.7	173.5	195.4	216.4
0.4000E-02	32.1	36.2	39.9	43.3	46.6	49.7	50.7	99.5	135.5	170.5	204.3	236.6	266.9	294.6
0.6000E-02	38.1	43.1	47.7	52.2	56.5	60.7	61.6	121.3	168.2	213.5	257.0	297.6	334.3	365.9
0.8000E-02	43.7	49.7	55.4	60.9	66.3	71.6	72.5	143.1	200.7	256.2	308.6	356.2	397.1	429.8
0.1000E-01	49.2	56.3	63.1	69.7	76.2	82.5	83.1	151.7	211.0	276.2	338.8	394.1	441.2	479.7
0.2000E-01	76.5	89.0	101.3	113.3	125.3	137.1	137.1	251.7	361.0	450.8	543.8	604.1	641.2	679.7
0.4000E-01	131.1	155.5	177.6	200.6	223.4	246.1	246.1	466.4	671.2					
0.6000E-01	185.6	219.9	254.0	287.8	321.5	354.9	354.9	671.2						
0.8000E-01	240.2	285.4	330.3	374.9	419.3	463.5	463.5							
0.1000E-00	294.7	350.8	406.5	461.9	517.0	571.6	571.6							
0.2000E-00	567.1	677.1												

Y= 3.

VLAM.0/M\*\*2D= 0.100000E-03

D/LAM-0	W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.1	0.2	0.3	0.4	4.1	9.5	14.2	18.0	21.1	23.8	26.1
0.2000E-04	0.1	0.2	0.4	0.4	0.7	1.0	1.4	8.5	15.2	20.1	25.9	27.1	29.8	32.1
0.3000E-04	0.4	0.8	1.4	1.4	2.2	3.1	4.1	14.2	21.1	26.1	30.0	33.1	35.8	38.2
0.6000E-04	0.9	1.6	2.7	2.7	3.9	5.2	6.6	17.5	24.6	29.6	33.5	36.7	39.4	41.8
0.8000E-04	1.4	2.6	4.0	4.0	5.6	7.1	8.6	20.1	27.1	32.2	36.1	39.3	42.0	44.4
0.1000E-03	2.1	3.6	5.3	5.3	7.0	8.7	10.4	22.3	29.1	34.1	38.0	41.3	44.0	46.4
0.2000E-03	5.4	7.9	10.2	12.4	12.4	14.3	16.1	28.1	35.3	40.4	44.5	47.9	50.8	53.4
0.4000E-03	10.4	13.4	15.9	18.2	18.2	20.3	22.1	34.4	41.9	47.5	52.1	56.0	59.6	62.8
0.6000E-03	13.7	16.8	19.5	21.8	21.8	23.9	25.7	38.4	46.4	52.6	57.9	62.7	66.7	70.6
0.8000E-03	16.2	19.3	22.0	24.4	24.4	26.5	28.4	41.5	50.1	57.2	63.3	68.8	73.5	77.6
0.1000E-02	18.1	21.3	24.0	26.4	26.4	28.6	30.5	44.2	53.6	61.5	68.5	74.5	79.7	83.7
0.2000E-02	24.5	27.9	30.9	33.5	33.5	35.9	38.1	55.7	69.8	81.9	91.7	98.8	103.2	105.5
0.4000E-02	32.1	36.2	39.9	43.3	43.3	46.6	49.7	77.2	99.8	119.2	125.2	128.8	129.3	128.6
0.6000E-02	38.1	43.1	47.7	52.2	52.2	56.5	60.7	98.0	126.3	141.8	146.9	147.1	145.7	144.1
0.8000E-02	43.7	49.7	55.4	60.9	60.9	66.3	71.5	118.0	148.9	161.1	162.7	161.0	158.8	156.9
0.1000E-01	45.2	56.2	63.0	69.6	69.6	76.0	82.3	136.9	168.0	176.3	175.4	172.7	170.2	168.3
0.2000E-01	76.5	88.9	101.0	112.8	112.8	124.3	135.4	215.0	231.1	226.9	221.8	218.1	215.6	211.9
0.4000E-01	130.7	153.5	175.5	196.4	196.4	216.1	234.2	309.3	301.6	292.6	287.3	284.1	282.0	280.7
0.6000E-01	184.3	216.6	246.9	274.6	274.6	299.0	319.5	367.8	352.5	343.4	338.6	335.8	334.1	333.0
0.8000E-01	237.0	277.6	314.3	345.9	345.9	371.5	391.0	413.0	395.4	386.8	382.5	380.0	378.5	377.5
0.1000E 00	288.6	336.2	377.1	409.9	409.9	434.1	450.5	451.5	433.4	425.4	421.4	419.2	417.8	416.9
0.2000E 00	523.8	584.1	621.2	639.8	639.8	646.1	645.4	601.4	585.3	579.1	576.2	574.6	573.6	572.9

Y = 3.

VLAM-0/W\*20= 0.100000E-32

-20. LOG /T/

D/LAM-0	M	-20. LOG /T/										VLAM.0/M**20= 0.100000E-01										Y= 3.	
		50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00	900.00	1000.00	1100.00	1200.00	1300.00	1400.00	1500.00	1600.00	1700.00
0.1000E-04	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.1	9.6	14.2	18.0	21.1	23.8	26.1	28.1	29.8	31.1	32.1	33.1	34.1	35.1	36.1	37.1
0.2000E-04	0.1	0.1	0.2	0.4	0.7	1.0	1.5	8.7	15.2	20.1	24.0	27.1	29.8	32.1	34.1	35.7	37.1	38.1	39.1	40.1	41.1	42.1	43.1
0.4000E-04	0.4	0.8	0.8	1.4	2.2	3.1	4.1	14.2	21.1	26.1	30.0	33.1	35.7	37.1	38.1	39.1	40.1	41.1	42.1	43.1	44.1	45.1	46.1
0.6000E-04	0.9	1.7	2.7	2.7	3.9	5.2	5.6	17.7	24.6	29.6	33.4	36.5	39.1	41.2	42.1	43.1	44.1	45.1	46.1	47.1	48.1	49.1	50.1
0.8000E-04	1.5	2.6	4.0	4.0	5.6	7.1	8.1	20.1	27.1	32.1	35.9	38.9	41.4	43.3	44.9	46.4	47.4	48.5	49.5	50.5	51.5	52.5	53.5
0.1000E-03	2.1	3.6	5.3	5.3	7.1	8.8	10.4	22.1	29.1	34.0	37.8	40.7	43.1	44.9	46.4	47.4	48.5	49.5	50.5	51.5	52.5	53.5	54.5
0.2000E-03	5.4	7.9	10.2	12.4	12.4	14.3	16.1	28.1	35.1	40.0	43.8	46.8	49.4	50.2	51.2	52.2	53.2	54.2	55.2	56.2	57.2	58.2	59.2
0.4000E-03	10.4	13.4	16.0	18.3	20.3	20.3	22.1	34.3	41.3	45.5	48.1	49.4	50.6	51.6	52.6	53.6	54.6	55.6	56.6	57.6	58.6	59.6	60.6
0.6000E-03	13.7	16.8	19.5	21.8	23.9	23.9	25.7	38.1	44.9	48.5	50.0	51.2	52.2	53.2	54.2	55.2	56.2	57.2	58.2	59.2	60.2	61.2	62.2
0.8000E-03	16.2	19.3	22.0	24.4	26.5	26.5	28.4	40.9	47.4	50.2	51.3	52.3	53.3	54.3	55.3	56.3	57.3	58.3	59.3	60.3	61.3	62.3	63.3
0.1000E-02	18.1	21.3	24.1	26.4	28.6	28.6	30.5	43.3	49.3	51.3	51.6	52.6	53.6	54.6	55.6	56.6	57.6	58.6	59.6	60.6	61.6	62.6	63.6
0.2000E-02	24.5	27.9	30.8	33.4	35.8	35.8	37.9	51.1	54.2	54.1	53.7	54.7	55.7	56.7	57.7	58.7	59.7	60.7	61.7	62.7	63.7	64.7	65.7
0.4000E-02	32.1	36.1	39.6	42.8	45.7	45.7	48.3	59.1	58.8	58.3	57.5	58.5	59.5	60.5	61.5	62.5	63.5	64.5	65.5	66.5	67.5	68.5	69.5
0.6000E-02	38.0	42.7	46.9	50.6	53.6	53.6	56.6	63.7	62.4	61.6	61.1	62.1	63.1	64.1	65.1	66.1	67.1	68.1	69.1	70.1	71.1	72.1	73.1
0.8000E-02	43.3	48.8	53.6	57.6	60.9	60.9	63.9	70.3	68.6	67.8	67.4	68.4	69.4	70.4	71.4	72.4	73.4	74.4	75.4	76.4	77.4	78.4	79.4
0.1000E-01	48.5	54.6	59.7	63.8	66.8	66.8	68.9	70.3	68.6	67.8	67.4	68.4	69.4	70.4	71.4	72.4	73.4	74.4	75.4	76.4	77.4	78.4	79.4
0.2000E-01	71.8	78.9	83.3	85.6	86.5	86.5	86.7	82.7	81.1	80.5	80.2	80.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
0.4000E-01	105.4	108.9	109.5	108.8	107.8	107.8	106.7	101.5	100.4	99.9	99.7	99.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
0.6000E-01	127.1	127.3	125.9	124.3	122.9	122.9	121.7	116.9	115.8	115.5	115.3	115.2	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
0.8000E-01	142.8	141.2	139.0	137.2	135.6	135.6	134.4	130.0	129.1	128.6	128.7	128.6	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5
0.1000E 00	155.6	152.9	150.5	148.5	147.0	147.0	145.9	141.8	141.0	140.7	140.6	140.5	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
0.2000E 00	202.1	198.4	195.9	194.2	192.9	192.9	192.0	189.0	188.4	188.2	188.1	188.0	188.0	188.0	188.0	188.0	188.0	188.0	188.0	188.0	188.0	188.0	188.0
0.3000E 00	237.4	233.9	231.7	230.2	229.1	229.1	228.3	225.8	225.3	225.1	225.1	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0
0.4000E 00	267.4	264.3	262.2	260.9	260.0	260.0	259.3	257.1	256.5	256.2	256.1	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
0.5000E 00	294.2	291.2	289.4	288.2	287.3	287.3	286.7	284.7	284.3	284.2	284.1	284.1	284.1	284.1	284.1	284.1	284.1	284.1	284.1	284.1	284.1	284.1	284.1
0.6000E 00	318.5	315.8	314.1	312.9	312.2	312.2	311.6	309.8	309.4	309.3	309.3	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2	309.2
0.7000E 00	341.0	338.4	336.8	335.8	335.1	335.1	334.5	332.9	332.5	332.4	332.4	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3	332.3
0.8000E 00	362.0	359.6	358.1	357.1	356.4	356.4	355.9	354.3	354.1	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9
0.9000E 00	381.8	379.5	378.1	377.2	376.5	376.5	376.0	374.5	374.3	374.2	374.2	374.1	374.1	374.1	374.1	374.1	374.1	374.1	374.1	374.1	374.1	374.1	374.1
0.1000E 01	400.6	398.4	397.0	396.1	395.5	395.5	395.1	393.6	393.4	393.3	393.3	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2
0.1100E 01	418.4	416.3	415.0	414.2	413.6	413.6	413.2	411.8	411.5	411.5	411.5	411.4	411.4	411.4	411.4	411.4	411.4	411.4	411.4	411.4	411.4	411.4	411.4
0.1200E 01	435.5	433.5	432.2	431.4	430.9	430.9	430.5	429.2	428.9	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8
0.1300E 01	451.9	449.9	448.7	448.0	447.0	447.0	446.3	445.8	445.6	445.5	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4	445.4
0.1400E 01	467.7	465.8	464.6	463.9	463.4	463.4	463.0	461.8	461.6	461.5	461.5	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4	461.4
0.1500E 01	482.9	481.1	480.0	479.2	478.7	478.7	478.4	477.2	477.0	476.9	476.9	476.9	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8	476.8

D/LAM.0	M	50.00	60.00	70.00	80.00	90.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	300.00	400.00	500.00	600.00	700.00	800.00
					-20. LOG / $\pi$									VLAM.0/M*2D=	0.200000E-01		Y=	0.	
0.1000E-04	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	4.1	9.6	14.2	18.0	21.1	23.8	26.1	28.8	31.9	37.2	42.0
0.2000E-04	0.1	0.1	0.2	0.4	0.7	1.0	1.5	8.7	15.2	20.1	24.0	27.1	29.7	32.9	35.3	37.2	39.8	41.2	42.0
0.4000E-04	0.4	0.8	1.4	2.2	3.1	4.1	4.1	14.2	21.1	26.1	29.9	32.9	35.3	37.2	39.8	41.2	42.0	43.6	44.1
0.6000E-04	0.9	1.7	2.7	3.9	5.3	6.6	6.6	17.7	24.5	29.5	33.2	36.0	38.0	39.9	41.2	42.0	43.6	44.1	44.2
0.8000E-04	1.5	2.6	4.0	5.6	7.2	8.7	8.7	20.1	27.1	31.9	35.5	38.0	39.9	41.2	42.0	43.6	44.1	44.2	44.3
0.1000E-03	2.1	3.6	5.3	7.1	8.8	10.4	10.4	22.1	29.0	33.7	37.1	39.4	41.0	42.0	43.6	44.1	44.2	44.3	44.4
0.2000E-03	5.4	7.9	10.3	12.4	14.4	16.1	16.1	28.0	34.8	38.9	42.5	43.9	44.0	44.2	44.3	44.4	44.5	44.6	44.7
0.4000E-03	10.4	13.4	16.0	18.3	20.3	22.1	22.1	34.0	39.8	42.5	43.5	43.9	44.0	44.2	44.3	44.4	44.5	44.6	44.7
0.6000E-03	13.8	16.8	19.5	21.8	23.9	25.7	25.7	37.4	42.1	43.5	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	45.0
0.8000E-03	16.2	19.4	22.0	24.4	26.5	28.3	28.3	39.6	43.4	44.2	44.3	44.3	44.4	44.5	44.6	44.7	44.8	44.9	45.0
0.1000E-02	18.2	21.3	24.1	26.4	28.5	30.4	30.4	41.3	44.1	44.5	44.5	44.5	44.6	44.7	44.8	44.9	45.0	45.1	45.2
0.2000E-02	24.5	27.9	30.7	33.2	35.4	37.3	37.3	45.3	45.6	45.3	45.2	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9
0.4000E-02	31.9	35.7	38.8	41.5	43.5	45.1	45.1	48.1	47.4	47.0	46.8	46.7	46.6	46.6	46.7	46.8	46.9	47.0	47.1
0.6000E-02	37.5	41.6	44.8	47.2	48.8	49.9	49.9	50.2	49.3	49.0	48.8	48.7	48.6	48.6	48.7	48.8	48.9	49.0	49.1
0.8000E-02	42.3	46.5	49.5	51.5	52.6	53.1	53.1	52.1	51.2	50.9	50.8	50.7	50.6	50.6	50.7	50.8	50.9	51.0	51.1
0.1000E-01	46.6	50.8	53.4	55.8	55.5	55.6	55.6	53.9	53.1	52.8	52.7	52.6	52.5	52.5	52.6	52.7	52.8	52.9	53.0
0.2000E-01	63.0	65.1	65.5	65.3	64.9	64.4	64.4	61.9	61.3	61.1	61.0	60.9	60.8	60.8	60.9	61.0	61.1	61.2	61.3
0.4000E-01	80.8	80.1	79.1	78.2	77.4	76.8	76.8	74.7	74.2	74.0	73.9	73.9	73.9	73.9	74.0	74.1	74.2	74.3	74.4
0.6000E-01	91.9	90.4	89.2	88.2	87.5	87.0	87.0	85.1	84.7	84.6	84.5	84.5	84.5	84.5	84.6	84.7	84.8	84.9	85.0
0.8000E-01	100.9	99.1	97.9	97.0	96.3	95.8	95.8	94.1	93.8	93.7	93.6	93.6	93.6	93.6	93.7	93.8	93.9	94.0	94.1
0.1000E 00	108.7	106.9	105.7	104.8	104.2	103.8	103.8	102.2	101.9	101.8	101.8	101.8	101.8	101.8	101.9	102.0	102.1	102.2	102.3
0.2000E 00	140.0	138.5	137.5	136.8	136.3	136.0	136.0	134.9	134.7	134.6	134.6	134.6	134.6	134.6	134.7	134.8	134.9	135.0	135.1
0.4000E 00	164.8	163.4	162.6	162.0	161.6	161.4	161.4	160.4	160.3	160.2	160.2	160.2	160.2	160.2	160.3	160.4	160.5	160.6	160.7
0.6000E 00	186.0	184.8	184.1	183.6	183.2	183.0	183.0	182.2	182.0	182.0	182.0	182.0	182.0	182.0	182.1	182.2	182.3	182.4	182.5
0.8000E 00	204.9	203.8	203.1	202.7	202.3	202.1	202.1	201.4	201.3	201.2	201.2	201.2	201.2	201.2	201.3	201.4	201.5	201.6	201.7
0.1000E 01	222.0	221.0	220.4	220.0	219.7	219.5	219.5	218.8	218.7	218.7	218.7	218.7	218.7	218.7	218.8	218.9	219.0	219.1	219.2
0.2000E 01	237.8	236.9	236.3	235.9	235.7	235.5	235.5	234.9	234.8	234.7	234.7	234.7	234.7	234.7	234.8	234.9	235.0	235.1	235.2
0.4000E 01	252.5	251.7	251.1	250.8	250.5	250.3	250.3	249.8	249.7	249.6	249.6	249.6	249.6	249.6	249.7	249.8	249.9	250.0	250.1
0.6000E 01	266.4	265.6	265.0	264.7	264.5	264.3	264.3	263.8	263.7	263.7	263.7	263.7	263.7	263.7	263.8	263.9	264.0	264.1	264.2
0.8000E 01	279.5	278.7	278.2	277.9	277.7	277.5	277.5	277.0	276.9	276.9	276.9	276.9	276.9	276.9	277.0	277.1	277.2	277.3	277.4
0.1000E 02	291.9	291.2	290.7	290.4	290.2	290.1	290.1	289.6	289.5	289.5	289.5	289.5	289.5	289.5	289.6	289.7	289.8	289.9	290.0
0.2000E 02	303.8	303.1	302.7	302.4	302.2	302.0	302.0	301.6	301.5	301.5	301.5	301.5	301.5	301.5	301.6	301.7	301.8	301.9	302.0
0.4000E 02	315.2	314.5	314.1	313.8	313.6	313.5	313.5	313.1	313.0	313.0	313.0	313.0	313.0	313.0	313.1	313.2	313.3	313.4	313.5
0.6000E 02	326.2	325.5	325.1	324.8	324.6	324.5	324.5	324.1	324.0	324.0	324.0	324.0	324.0	324.0	324.1	324.2	324.3	324.4	324.5
0.8000E 02	336.7	336.1	335.7	335.4	335.2	335.1	335.1	334.7	334.6	334.6	334.6	334.6	334.6	334.6	334.7	334.8	334.9	335.0	335.1

D/LAM.0	50.00	60.00	70.00	80.00	90.00	100.00	250.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.6	14.3	18.0	21.1	23.8	26.0
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.5	8.7	15.3	20.1	23.9	27.0	29.5	31.6
0.4000E-04	0.4	0.8	1.4	2.2	3.1	4.2	14.3	21.1	26.0	29.7	32.5	34.6	36.2
0.6000E-04	0.9	1.7	2.7	4.0	5.3	6.6	17.7	24.6	29.4	32.8	35.2	37.0	38.1
0.8000E-04	1.5	2.6	4.1	5.6	7.2	8.7	20.1	27.0	31.6	34.8	36.9	38.2	39.0
0.1000E-03	2.1	3.6	5.3	7.1	8.8	10.4	22.1	28.9	33.3	36.1	37.9	38.7	39.5
0.2000E-03	5.5	7.9	10.3	12.4	14.4	16.2	27.9	34.2	37.5	39.1	39.8	40.1	40.3
0.4000E-03	10.5	13.4	16.0	18.3	20.3	22.1	33.5	38.2	39.8	40.3	40.4	40.5	40.5
0.6000E-03	13.8	16.9	19.5	21.8	23.8	25.7	36.4	39.6	40.4	40.5	40.6	40.6	40.6
0.8000E-03	16.2	19.4	22.0	24.4	26.4	28.2	38.1	40.2	40.6	40.7	40.7	40.6	40.6
0.1000E-02	18.2	21.3	24.0	26.4	28.4	30.2	39.1	40.6	40.8	40.7	40.7	40.7	40.7
0.2000E-02	24.5	27.8	30.5	32.8	34.8	36.4	41.3	41.3	41.1	41.0	41.0	40.9	40.9
0.4000E-02	31.7	35.1	37.8	39.7	41.1	42.0	42.7	42.3	42.0	41.9	41.9	41.8	41.8
0.6000E-02	36.7	40.1	42.3	43.6	44.4	44.7	43.9	43.4	43.2	43.1	43.1	43.0	43.0
0.8000E-02	40.8	43.8	45.5	46.3	46.5	46.5	45.2	44.7	44.5	44.4	44.4	44.4	44.3
0.1000E-01	44.3	46.7	47.9	48.2	48.2	48.0	46.5	46.1	45.9	45.8	45.8	45.7	45.7
0.2000E-01	55.4	55.8	55.4	55.0	54.5	54.2	52.6	52.3	52.1	52.1	52.0	52.0	52.0
0.4000E-01	67.1	66.1	65.3	64.7	64.2	63.8	62.6	62.3	62.2	62.2	62.2	62.2	62.2
0.6000E-01	75.2	74.0	73.2	72.6	72.2	71.9	70.8	70.6	70.5	70.5	70.5	70.5	70.5
0.8000E-01	82.1	80.9	80.2	79.6	79.2	79.0	78.0	77.8	77.8	77.8	77.8	77.7	77.7
0.1000E-00	88.3	87.2	86.4	85.9	85.6	85.3	84.5	84.3	84.3	84.3	84.3	84.2	84.2
0.2000E-00	113.6	112.7	112.1	111.7	111.5	111.3	110.7	110.6	110.5	110.5	110.5	110.5	110.5
0.3000E-00	133.6	132.9	132.4	132.1	131.9	131.7	131.2	131.1	131.1	131.1	131.1	131.1	131.1
0.4000E-00	150.8	150.2	149.7	149.5	149.3	149.2	148.7	148.6	148.6	148.6	148.6	148.6	148.6
0.5000E-00	166.1	165.5	165.1	164.9	164.7	164.6	164.2	164.1	164.1	164.1	164.1	164.1	164.1
0.6000E-00	179.9	179.4	179.0	178.8	178.7	178.6	178.2	178.1	178.1	178.1	178.1	178.1	178.1
0.7000E-00	192.7	192.2	191.9	191.7	191.5	191.4	191.0	191.0	191.0	191.0	191.0	191.0	191.0
0.8000E-00	204.6	204.1	203.8	203.6	203.5	203.4	203.1	203.0	203.0	203.0	203.0	203.0	203.0
0.9000E-00	215.7	215.3	215.0	214.8	214.7	214.6	214.3	214.2	214.2	214.2	214.2	214.2	214.2
0.1000E-01	226.2	225.8	225.5	225.4	225.3	225.2	224.9	224.8	224.8	224.8	224.8	224.8	224.8
0.1100E-01	236.2	235.8	235.6	235.4	235.3	235.2	234.9	234.8	234.8	234.8	234.8	234.8	234.8
0.1200E-01	245.8	245.4	245.1	245.0	244.9	244.8	244.5	244.5	244.5	244.5	244.5	244.5	244.5
0.1300E-01	254.9	254.5	254.3	254.1	254.0	253.9	253.7	253.6	253.6	253.6	253.6	253.6	253.6
0.1400E-01	263.6	263.2	263.0	262.9	262.8	262.7	262.5	262.4	262.4	262.4	262.4	262.4	262.4
0.1500E-01	272.0	271.7	271.5	271.3	271.2	271.1	270.9	270.9	270.9	270.9	270.9	270.9	270.9



D/LAM.0	M	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.1	0.2	0.3	0.4	4.2	9.6	14.3	18.0	21.1	23.7	25.8
0.2000E-04	0.1	0.2	0.4	0.4	0.7	1.0	1.5	8.7	15.3	20.1	23.3	26.9	29.3	31.2
0.4000E-04	0.4	0.8	1.4	1.4	2.2	3.1	4.2	14.3	21.1	25.9	29.4	32.0	33.8	35.1
0.6000E-04	0.9	1.7	2.7	2.7	4.0	5.3	6.7	17.7	24.5	29.1	32.3	34.4	35.7	36.5
0.8000E-04	1.5	2.6	4.1	4.1	5.6	7.2	8.7	20.1	26.9	31.2	34.0	35.6	36.6	37.1
0.1000E-03	2.1	3.6	5.4	5.4	7.1	8.8	10.5	22.0	28.7	32.7	35.1	36.4	37.1	37.4
0.2000E-03	5.5	8.0	10.3	10.3	12.5	14.4	16.2	27.8	33.5	36.1	37.2	37.6	37.8	37.9
0.4000E-03	10.5	13.4	16.0	16.0	18.3	20.3	22.1	32.9	36.5	37.6	37.9	38.0	38.0	38.0
0.6000E-03	13.8	16.9	19.5	19.5	21.8	23.8	25.6	35.2	37.5	38.0	38.0	38.1	38.1	38.1
0.8000E-03	16.2	19.4	22.0	22.0	24.3	26.3	28.0	36.5	37.9	38.1	38.1	38.1	38.1	38.1
0.1000E-02	18.2	21.3	24.0	24.0	26.3	28.2	29.9	37.2	38.1	38.2	38.2	38.1	38.1	38.1
0.2000E-02	24.4	27.6	30.2	30.2	32.3	34.0	35.3	38.6	38.5	38.4	38.3	38.3	38.3	38.3
0.4000E-02	31.3	34.4	36.5	36.5	37.9	38.8	39.3	39.4	39.1	38.9	38.9	38.8	38.8	38.8
0.6000E-02	35.8	38.4	39.9	39.9	40.6	40.9	41.0	40.2	39.8	39.7	39.7	39.6	39.5	39.6
0.8000E-02	39.2	41.2	42.1	42.1	42.3	42.3	42.2	41.1	40.8	40.6	40.6	40.5	40.5	40.5
0.1000E-01	41.8	43.2	43.6	43.6	43.6	43.5	43.3	42.1	41.8	41.5	41.6	41.5	41.5	41.5
0.2000E-01	49.8	49.5	49.1	48.7	48.3	48.3	48.0	46.9	46.7	46.5	46.6	46.6	46.6	46.6
0.4000E-01	58.6	57.7	57.1	56.7	56.3	56.3	56.1	55.3	55.1	55.0	55.0	55.0	55.0	55.0
0.6000E-01	65.2	64.4	63.8	63.4	63.1	62.9	62.9	62.2	62.1	62.0	62.0	62.0	62.0	62.0
0.8000E-01	71.1	70.2	69.7	69.3	69.1	68.9	68.9	68.3	68.2	68.1	68.1	68.1	68.1	68.1
0.1000E 00	76.4	75.6	75.1	74.7	74.5	74.3	74.3	73.8	73.7	73.7	73.5	73.5	73.6	73.6
0.2000E 00	98.0	97.4	97.0	96.8	96.6	96.5	96.5	96.1	96.0	96.0	96.0	96.0	96.0	96.0
0.3000E 00	115.2	114.7	114.4	114.2	114.1	114.0	114.0	113.7	113.6	113.6	113.6	113.6	113.6	113.6
0.4000E 00	130.0	129.6	129.3	129.1	129.0	128.9	128.9	128.6	128.6	128.6	128.6	128.5	128.5	128.5
0.5000E 00	143.1	142.7	142.4	142.3	142.2	142.1	142.1	141.9	141.8	141.8	141.8	141.8	141.8	141.8
0.6000E 00	154.9	154.6	154.4	154.2	154.1	154.0	154.0	153.8	153.8	153.8	153.8	153.7	153.7	153.7
0.7000E 00	165.9	165.5	165.3	165.2	165.1	165.0	165.0	164.8	164.8	164.8	164.8	164.7	164.7	164.7
0.8000E 00	176.0	175.7	175.5	175.4	175.3	175.2	175.2	175.0	175.0	175.0	175.0	175.0	175.0	175.0
0.9000E 00	185.5	185.2	185.0	184.9	184.8	184.8	184.8	184.6	184.6	184.5	184.5	184.5	184.5	184.5
0.1000E 01	194.5	194.2	194.0	193.9	193.8	193.8	193.8	193.6	193.6	193.6	193.5	193.5	193.5	193.5
0.1100E 01	203.0	202.7	202.5	202.4	202.4	202.3	202.3	202.1	202.1	202.1	202.1	202.1	202.1	202.1
0.1200E 01	211.1	210.8	210.6	210.5	210.5	210.4	210.4	210.3	210.3	210.2	210.2	210.2	210.2	210.2
0.1300E 01	218.8	218.5	218.4	218.3	218.2	218.2	218.2	218.0	218.0	218.0	218.0	218.0	218.0	218.0
0.1400E 01	226.2	225.9	225.8	225.7	225.6	225.6	225.6	225.5	225.5	225.4	225.4	225.4	225.4	225.4
0.1500E 01	233.3	233.1	232.9	232.8	232.8	232.7	232.7	232.5	232.5	232.6	232.6	232.5	232.5	232.5

Y= 3.

VLAN.0/M\*\*2D= 0.400000E-01

-20. LOG /Y/



D/LAM.0	W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.3	18.0	21.1	23.6	25.6
0.2000E-04	0.1	0.2	0.4	0.4	0.7	1.0	1.5	8.8	15.3	20.1	23.7	26.5	28.7	30.2
0.4000E-04	0.4	0.8	1.4	1.4	2.2	3.2	4.2	14.3	21.1	25.7	28.8	30.9	32.2	33.0
0.6000E-04	0.9	1.7	2.8	2.8	4.0	5.3	6.7	17.7	24.4	28.5	31.1	32.5	33.4	33.8
0.8000E-04	1.5	2.7	4.1	4.1	5.7	7.2	8.8	20.1	26.5	30.3	32.3	33.3	33.9	34.1
0.1000E-03	2.1	3.7	5.4	5.4	7.2	8.9	10.5	22.0	28.1	31.4	33.0	33.7	34.1	34.3
0.2000E-03	5.5	8.0	10.3	12.5	14.4	16.4	18.2	27.3	32.0	33.6	34.1	34.4	34.5	34.5
0.4000E-03	10.5	13.5	16.0	18.3	20.3	22.0	22.0	31.5	33.8	34.4	34.5	34.5	34.5	34.6
0.6000E-03	13.8	16.9	19.5	21.7	23.7	25.3	25.3	33.1	34.3	34.5	34.6	34.6	34.6	34.6
0.8000E-03	16.3	19.3	21.9	24.1	26.0	27.6	27.6	33.8	34.5	34.6	34.6	34.6	34.6	34.6
0.1000E-02	18.2	21.3	23.8	26.0	27.7	29.2	29.2	34.2	34.6	34.6	34.6	34.6	34.6	34.6
0.2000E-02	24.2	27.2	29.5	31.2	32.4	33.2	33.2	34.8	34.8	34.7	34.7	34.7	34.7	34.7
0.4000E-02	30.4	32.7	34.1	34.8	35.2	35.4	35.4	35.0	35.0	34.9	34.9	34.9	34.9	34.9
0.6000E-02	33.9	35.4	36.0	36.2	36.2	36.2	36.2	35.6	35.4	35.4	35.4	35.3	35.3	35.3
0.8000E-02	36.1	36.9	37.1	37.1	37.0	36.8	36.1	36.0	35.9	35.9	35.9	35.8	35.8	35.8
0.1000E-01	37.6	38.0	38.0	37.8	37.6	37.6	37.4	36.7	36.5	36.5	36.5	36.4	36.4	36.4
0.2000E-01	42.2	41.8	41.4	41.1	40.9	40.7	40.1	39.9	39.9	39.9	39.9	39.9	39.9	39.9
0.4000E-01	48.4	47.8	47.4	47.2	47.0	46.8	46.4	46.3	46.3	46.3	46.3	46.2	46.2	46.2
0.6000E-01	53.5	53.0	52.7	52.4	52.3	52.2	51.8	51.7	51.7	51.7	51.7	51.7	51.7	51.7
0.8000E-01	58.1	57.6	57.3	57.1	57.0	56.9	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
0.1000E-00	62.3	61.9	61.6	61.4	61.3	61.2	60.9	60.8	60.8	60.8	60.8	60.8	60.8	60.8
0.2000E-00	79.7	79.3	79.1	79.0	78.9	78.8	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
0.3000E-00	93.5	93.2	93.0	92.9	92.9	92.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
0.4000E-00	105.3	105.1	104.9	104.8	104.8	104.7	104.6	104.5	104.5	104.5	104.5	104.5	104.5	104.5
0.5000E-00	115.8	115.6	115.4	115.3	115.3	115.2	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
0.6000E-00	125.2	125.0	124.9	124.8	124.8	124.8	124.6	124.6	124.6	124.6	124.6	124.6	124.6	124.6
0.7000E-00	133.9	133.7	133.6	133.6	133.5	133.5	133.4	133.3	133.3	133.3	133.3	133.3	133.3	133.3
0.8000E-00	142.0	141.8	141.7	141.6	141.6	141.6	141.5	141.4	141.4	141.4	141.4	141.4	141.4	141.4
0.9000E-00	149.5	149.4	149.3	149.2	149.2	149.1	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
0.1000E-01	156.6	156.4	156.4	156.3	156.3	156.2	156.1	156.1	156.1	156.1	156.1	156.1	156.1	156.1
0.1100E-01	163.3	163.1	163.1	163.0	163.0	162.9	162.8	162.8	162.8	162.8	162.8	162.8	162.8	162.8
0.1200E-01	169.6	169.5	169.4	169.4	169.3	169.3	169.2	169.2	169.2	169.2	169.2	169.2	169.2	169.2
0.1300E-01	175.7	175.6	175.5	175.4	175.4	175.4	175.3	175.3	175.3	175.3	175.3	175.3	175.3	175.3
0.1400E-01	181.5	181.3	181.3	181.2	181.2	181.2	181.1	181.1	181.1	181.1	181.1	181.1	181.1	181.1
0.1500E-01	187.0	186.9	186.8	186.8	186.7	186.7	186.6	186.6	186.6	186.6	186.6	186.6	186.6	186.6

Y= 3.

VLAM.0/W\*\*2D= 0.600000E-01

D/LAM:0	M	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.1	0.1	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.3	18.0	21.3	23.5	25.5
0.2000E-04	0.1	0.2	0.4	0.4	0.7	1.0	1.5	8.8	15.3	20.1	23.6	26.3	28.3	29.7
0.4000E-04	0.4	0.8	1.4	2.2	3.2	4.2	6.7	14.3	21.0	25.5	28.4	30.3	31.4	32.1
0.6000E-04	0.9	1.7	2.8	4.0	5.4	7.3	8.8	20.1	24.2	28.2	30.5	31.7	32.3	32.7
0.8000E-04	1.1	2.7	4.1	5.7	7.3	8.9	10.5	27.8	26.3	29.8	31.5	32.3	32.7	32.9
0.1000E-03	2.2	3.7	5.4	7.2	8.9	10.5	16.2	27.1	31.2	32.5	32.9	33.1	33.2	33.0
0.2000E-03	5.5	8.0	10.4	12.5	14.4	16.2	22.0	33.9	32.7	33.1	33.2	33.2	33.2	33.2
0.4000E-03	10.5	13.5	16.0	18.3	20.2	23.6	25.2	32.1	33.1	33.2	33.2	33.3	33.3	33.3
0.6000E-03	13.0	16.0	19.5	21.7	23.6	25.8	27.3	32.7	33.2	33.3	33.3	33.3	33.3	33.3
0.8000E-03	16.3	19.3	21.9	24.0	25.8	27.4	28.8	33.0	33.3	33.3	33.3	33.3	33.3	33.3
0.1000E-02	18.2	21.2	23.7	25.8	27.4	28.8	33.9	33.7	33.6	33.6	33.5	33.5	33.5	33.5
0.2000E-02	24.1	27.0	29.0	30.5	31.6	32.2	33.4	33.4	33.4	33.4	33.4	33.3	33.3	33.3
0.4000E-02	29.9	31.9	33.0	33.5	33.8	33.8	33.9	33.7	33.6	33.6	33.5	33.5	33.5	33.5
0.6000E-02	32.9	34.0	34.5	34.6	34.6	34.6	34.5	34.1	33.9	33.9	33.8	33.8	33.8	33.8
0.8000E-02	34.7	35.2	35.3	35.2	35.1	35.1	35.0	34.4	34.3	34.3	34.2	34.2	34.2	34.2
0.1000E-01	35.9	36.1	36.0	35.8	35.6	35.6	35.5	34.9	34.8	34.7	34.7	34.7	34.7	34.7
0.2000E-01	39.6	39.2	38.8	38.6	38.4	38.2	38.2	37.7	37.6	37.6	37.6	37.6	37.6	37.6
0.4000E-01	45.0	44.5	44.2	44.0	43.9	43.8	43.8	43.4	43.3	43.3	43.3	43.3	43.3	43.3
0.6000E-01	49.7	49.3	49.0	48.8	48.7	48.6	48.6	48.3	48.2	48.2	48.2	48.2	48.2	48.2
0.8000E-01	53.9	53.5	53.2	53.1	53.0	52.9	52.9	52.6	52.5	52.6	52.6	52.5	52.5	52.5
0.1000E 00	57.7	57.4	57.1	57.0	56.9	56.8	56.8	56.5	56.5	56.5	56.5	56.5	56.5	56.5
0.2000E 00	73.6	73.3	73.2	73.1	72.9	72.8	72.8	72.8	72.7	72.7	72.7	72.7	72.7	72.7
0.4000E 00	86.3	86.1	86.0	85.9	85.8	85.8	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
0.6000E 00	97.1	97.0	96.8	96.8	96.7	96.7	96.7	96.6	96.5	96.5	96.5	96.5	96.5	96.5
0.8000E 00	106.7	106.6	106.5	106.4	106.3	106.3	106.3	106.2	106.2	106.2	106.2	106.2	106.2	106.2
0.1000E 01	115.4	115.2	115.2	115.1	115.1	115.1	115.0	114.9	114.9	114.9	114.9	114.9	114.9	114.9
0.2000E 01	123.3	123.2	123.1	123.1	123.0	123.0	123.0	122.9	122.9	122.9	122.9	122.9	122.9	122.9
0.4000E 01	130.7	130.6	130.5	130.4	130.4	130.4	130.4	130.3	130.3	130.3	130.3	130.3	130.3	130.3
0.6000E 01	137.6	137.4	137.4	137.3	137.3	137.3	137.3	137.2	137.2	137.2	137.2	137.2	137.2	137.2
0.8000E 01	144.0	143.9	143.8	143.8	143.8	143.8	143.7	143.7	143.6	143.6	143.6	143.6	143.6	143.6
0.1000E 02	150.1	150.0	149.9	149.9	149.9	149.8	149.8	149.7	149.7	149.7	149.7	149.7	149.7	149.7
0.2000E 02	155.9	155.8	155.7	155.7	155.6	155.6	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5
0.4000E 02	161.4	161.3	161.2	161.2	161.1	161.1	161.0	161.0	161.0	161.0	161.0	161.0	161.0	161.0
0.6000E 02	166.6	166.5	166.4	166.4	166.4	166.4	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.3
0.8000E 02	171.6	171.5	171.4	171.4	171.4	171.4	171.4	171.3	171.3	171.3	171.3	171.3	171.3	171.3

-20. LOG /T/ VLAM:0/M\*\*2D= 0.700000E-01 Y= 3.

D/LAM.0	H	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	160.00	170.00	180.00	190.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.4	4.2	9.7	14.3	18.0	21.0	23.4	25.3								
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.0	1.5	1.5	8.8	15.3	20.3	23.5	26.1	27.9	29.2								
0.4000E-04	0.4	0.8	1.5	2.3	3.2	3.2	4.2	4.2	14.3	21.0	25.3	28.0	29.7	30.6	31.2								
0.6000E-04	0.9	1.7	2.8	4.0	5.4	5.4	6.7	6.7	17.7	24.1	27.8	29.8	30.9	31.4	31.7								
0.8000E-04	1.5	2.7	4.1	5.7	7.3	7.3	8.8	8.8	20.0	26.1	29.2	30.7	31.4	31.7	31.9								
0.1000E-03	2.2	3.7	5.4	7.2	8.9	8.9	10.5	10.5	21.8	27.5	30.1	31.2	31.6	31.8	32.0								
0.2000E-03	5.6	8.0	10.4	12.5	14.5	14.5	16.2	16.2	26.8	30.5	31.5	31.9	32.0	32.0	32.1								
0.4000E-03	10.6	13.5	16.1	18.3	20.2	20.2	21.9	21.9	30.2	31.7	32.0	32.1	32.1	32.1	32.1								
0.6000E-03	13.9	16.9	19.4	21.6	23.4	23.4	25.0	25.0	31.2	32.0	32.1	32.1	32.1	32.1	32.1								
0.8000E-03	16.3	19.3	21.8	23.9	25.6	25.6	27.0	27.0	31.7	32.1	32.1	32.1	32.1	32.1	32.1								
0.1000E-02	18.2	21.2	23.6	25.6	27.1	27.1	28.4	28.4	31.9	32.1	32.1	32.1	32.1	32.1	32.1								
0.2000E-02	24.0	26.7	28.6	29.9	30.8	30.8	31.3	31.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2								
0.4000E-02	29.4	31.1	32.0	32.4	32.6	32.6	32.6	32.6	32.5	32.4	32.4	32.4	32.4	32.4	32.4								
0.6000E-02	32.0	32.8	33.1	33.2	33.2	33.2	33.1	33.1	32.7	32.5	32.5	32.6	32.6	32.6	32.6								
0.8000E-02	33.4	33.6	33.8	33.7	33.6	33.6	33.5	33.5	33.4	33.3	33.3	33.3	33.3	33.3	33.3								
0.1000E-01	34.4	34.5	34.3	34.2	34.0	34.0	33.9	33.9	33.4	33.3	33.3	33.3	33.3	33.3	33.3								
0.2000E-01	37.4	37.1	36.8	36.5	36.4	36.4	36.3	36.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3								
0.4000E-01	42.3	41.9	41.6	41.5	41.3	41.3	41.2	41.2	40.9	40.9	40.9	40.9	40.9	40.8	40.8								
0.6000E-01	46.6	46.2	46.0	45.9	45.7	45.7	45.6	45.6	45.4	45.4	45.4	45.4	45.4	45.3	45.3								
0.8000E-01	50.5	50.1	49.9	49.8	49.7	49.7	49.6	49.6	49.4	49.4	49.4	49.4	49.4	49.4	49.4								
0.1000E 00	54.0	53.7	53.5	53.4	53.3	53.3	53.3	53.3	53.1	53.0	53.0	53.0	53.0	53.0	53.0								
0.2000E 00	68.7	68.5	68.4	68.3	68.2	68.2	68.2	68.2	68.1	68.0	68.0	68.0	68.0	68.0	68.0								
0.3000E 00	80.5	80.3	80.2	80.1	80.1	80.1	80.1	80.1	79.9	79.9	79.9	79.9	79.9	79.9	79.9								
0.4000E 00	90.5	90.4	90.3	90.2	90.2	90.2	90.2	90.2	90.1	90.0	90.0	90.0	90.0	90.0	90.0								
0.5000E 00	99.4	99.3	99.2	99.2	99.1	99.1	99.1	99.1	99.0	99.0	99.0	99.0	99.0	99.0	99.0								
0.6000E 00	107.4	107.3	107.2	107.2	107.2	107.2	107.1	107.1	107.0	107.0	107.0	107.0	107.0	107.0	107.0								
0.7000E 00	114.8	114.7	114.6	114.6	114.5	114.5	114.5	114.5	114.4	114.4	114.4	114.4	114.4	114.4	114.4								
0.8000E 00	121.6	121.5	121.4	121.4	121.3	121.3	121.3	121.3	121.2	121.2	121.2	121.2	121.2	121.2	121.2								
0.9000E 00	127.9	127.8	127.7	127.7	127.7	127.7	127.6	127.6	127.6	127.6	127.6	127.6	127.6	127.6	127.6								
0.1000E 01	133.8	133.7	133.7	133.7	133.6	133.6	133.6	133.6	133.5	133.5	133.5	133.5	133.5	133.5	133.5								
0.1100E 01	139.4	139.3	139.3	139.3	139.2	139.2	139.2	139.2	139.1	139.1	139.1	139.1	139.1	139.1	139.1								
0.1200E 01	144.7	144.6	144.6	144.6	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5								
0.1300E 01	149.8	149.7	149.6	149.6	149.6	149.6	149.6	149.6	149.5	149.5	149.5	149.5	149.5	149.5	149.5								
0.1400E 01	154.5	154.5	154.4	154.4	154.4	154.4	154.4	154.4	154.3	154.3	154.3	154.3	154.3	154.3	154.3								
0.1500E 01	159.1	159.0	159.0	159.0	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9								

Y = 3.

V/LAM.0/H\*20= 0.80000E-01

-20. LOG /T/

D/LAM.0	W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	500.00E-01	Y=	0.
0.1000E-04	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.3	9.7	14.3	20.9	23.2	25.1	25.1
0.2000E-04	0.1	0.1	0.2	0.4	0.7	1.1	1.5	8.8	15.3	20.0	25.8	27.5	28.7	28.7
0.4000E-04	0.4	0.9	1.5	2.3	4.3	3.2	4.3	14.3	20.9	25.1	29.1	29.9	30.4	30.4
0.6000E-04	0.9	1.7	2.8	4.0	6.8	5.4	6.8	17.7	23.9	27.4	30.1	30.5	30.8	30.8
0.8000E-04	1.5	2.7	4.2	5.7	8.8	7.3	8.8	20.0	25.8	28.7	30.5	30.8	30.9	30.9
0.1000E-03	2.2	3.7	5.4	7.2	10.6	8.9	10.6	21.7	27.1	28.4	30.7	30.9	31.0	31.0
0.2000E-03	5.6	8.1	10.4	12.5	16.2	14.5	16.2	26.5	29.8	30.6	31.0	31.1	31.1	31.1
0.4000E-03	10.6	13.5	16.0	18.2	20.2	20.2	21.8	29.5	30.8	31.0	31.1	31.1	31.1	31.1
0.6000E-03	13.9	16.9	19.4	21.5	23.3	23.3	24.8	30.4	31.0	31.1	31.1	31.1	31.1	31.1
0.8000E-03	16.3	19.3	21.7	23.7	25.4	25.4	26.7	30.8	31.1	31.1	31.1	31.1	31.1	31.1
0.1000E-02	18.1	21.1	23.5	25.4	26.8	26.8	27.9	31.0	31.1	31.1	31.1	31.1	31.1	31.1
0.2000E-02	23.9	26.4	28.1	29.3	30.0	30.0	30.5	31.2	31.2	31.2	31.2	31.2	31.2	31.2
0.4000E-02	28.9	30.3	31.0	31.4	31.6	31.6	31.6	31.4	31.3	31.3	31.3	31.3	31.3	31.3
0.6000E-02	31.1	31.8	32.0	32.0	32.0	32.0	31.9	31.5	31.5	31.5	31.5	31.5	31.5	31.5
0.8000E-02	32.3	32.5	32.5	32.4	32.3	32.3	32.3	31.9	31.8	31.8	31.7	31.7	31.7	31.7
0.1000E-01	33.1	33.1	33.0	32.8	32.6	32.6	32.6	32.2	32.1	32.1	32.1	32.1	32.1	32.1
0.2000E-01	35.6	35.3	35.0	34.9	34.6	34.7	34.6	34.3	34.2	34.2	34.2	34.2	34.2	34.2
0.4000E-01	40.0	39.7	39.5	39.3	39.2	39.2	39.1	38.9	38.8	38.8	38.8	38.8	38.8	38.8
0.6000E-01	44.0	43.7	43.5	43.4	43.3	43.3	43.2	43.0	43.0	43.0	43.0	43.0	43.0	43.0
0.8000E-01	47.6	47.3	47.2	47.1	47.0	46.9	46.9	46.7	46.7	46.7	46.7	46.7	46.7	46.7
0.1000E-00	50.9	50.7	50.5	50.4	50.3	50.3	50.3	50.1	50.1	50.1	50.1	50.1	50.1	50.1
0.2000E-00	64.7	64.5	64.4	64.3	64.2	64.3	64.2	64.1	64.1	64.1	64.1	64.1	64.1	64.1
0.3000E-00	75.7	75.5	75.4	75.3	75.2	75.3	75.3	75.2	75.2	75.2	75.2	75.2	75.2	75.2
0.4000E-00	85.1	84.9	84.9	84.8	84.7	84.8	84.7	84.7	84.7	84.6	84.6	84.6	84.6	84.6
0.5000E-00	93.4	93.2	93.2	93.1	93.1	93.1	93.1	93.0	93.0	93.0	93.0	93.0	93.0	93.0
0.6000E-00	100.8	100.7	100.7	100.6	100.6	100.6	100.6	100.5	100.5	100.5	100.5	100.5	100.5	100.5
0.7000E-00	107.7	107.6	107.5	107.5	107.4	107.4	107.4	107.4	107.4	107.4	107.4	107.4	107.4	107.4
0.8000E-00	114.0	113.9	113.9	113.8	113.8	113.8	113.8	113.7	113.7	113.7	113.7	113.7	113.7	113.7
0.9000E-00	119.9	119.8	119.7	119.7	119.7	119.7	119.6	119.6	119.6	119.6	119.6	119.6	119.6	119.6
0.1000E-01	125.4	125.3	125.3	125.2	125.2	125.2	125.2	125.1	125.1	125.1	125.1	125.1	125.1	125.1
0.2000E-01	130.6	130.5	130.4	130.4	130.3	130.4	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
0.3000E-01	135.5	135.4	135.3	135.3	135.3	135.3	135.3	135.2	135.2	135.2	135.2	135.2	135.2	135.2
0.4000E-01	140.1	140.0	140.0	140.0	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9
0.5000E-01	144.5	144.5	144.4	144.4	144.4	144.4	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
0.6000E-01	148.7	148.7	148.6	148.6	148.6	148.6	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5

D/LAM.0	M	-20. LOG /T/										VLAM.0/M**2D= 0.100000E 00										Y= 3.		
		50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00										
0.1000E-04	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.3	9.7	14.3	18.0	20.8	23.1	24.9	800.00									
0.2000E-04	0.1	0.2	0.4	0.7	1.1	1.5	1.5	8.9	15.3	19.9	23.2	25.6	27.1	28.2	29.9									
0.4000E-04	0.4	0.9	1.5	2.3	3.2	4.3	4.3	14.3	20.9	24.9	27.1	28.5	29.2	29.6	30.1									
0.6000E-04	0.9	1.7	2.8	4.1	5.4	6.8	6.8	17.7	23.8	27.0	28.6	29.4	29.8	29.9	30.1									
0.8000E-04	1.5	2.7	4.2	5.7	7.3	8.9	8.9	19.9	25.6	28.2	29.3	29.7	30.0	30.1	30.2									
0.1000E-03	2.2	3.7	5.5	7.2	8.9	10.6	10.6	21.7	26.8	28.8	29.6	29.9	30.0	30.1	30.2									
0.2000E-03	5.6	8.1	10.4	12.5	14.5	16.2	16.2	28.2	29.1	29.8	30.1	30.2	30.2	30.2	30.2									
0.4000E-03	10.6	13.5	16.0	18.2	20.1	21.7	21.7	28.9	30.0	30.1	30.2	30.2	30.2	30.2	30.2									
0.6000E-03	13.9	16.9	19.4	21.4	23.2	24.6	24.6	29.5	30.1	30.2	30.2	30.2	30.2	30.2	30.2									
0.8000E-03	16.3	19.2	21.6	23.6	25.1	26.4	26.4	29.9	30.2	30.2	30.2	30.2	30.2	30.2	30.2									
0.1000E-02	18.1	21.0	23.3	25.1	26.5	27.5	27.5	30.1	30.2	30.2	30.2	30.2	30.2	30.2	30.2									
0.2000E-02	22.7	26.1	27.7	28.7	29.3	29.7	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3									
0.4000E-02	28.4	29.6	30.2	30.5	30.6	30.6	30.6	30.5	30.4	30.4	30.4	30.4	30.4	30.4	30.4									
0.6000E-02	30.3	30.8	31.0	31.0	31.0	31.0	31.0	30.9	30.6	30.6	30.5	30.5	30.5	30.5	30.5									
0.8000E-02	31.3	31.4	31.4	31.3	31.2	31.2	31.2	30.9	30.8	30.8	30.8	30.7	30.7	30.7	30.7									
0.1000E-01	31.9	31.9	31.8	31.6	31.5	31.4	31.4	31.1	31.1	31.0	31.0	31.0	31.0	31.0	31.0									
0.2000E-01	34.1	33.8	33.6	33.4	33.3	33.2	33.2	32.9	32.9	32.8	32.8	32.8	32.8	32.8	32.8									
0.4000E-01	38.1	37.8	37.6	37.5	37.4	37.3	37.3	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1									
0.6000E-01	41.8	41.6	41.4	41.3	41.2	41.2	41.2	41.0	41.0	40.9	40.9	40.9	40.9	40.9	40.9									
0.8000E-01	45.2	45.0	44.8	44.7	44.7	44.6	44.6	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4									
0.1000E 00	48.3	48.1	48.0	47.9	47.8	47.8	47.8	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6									
0.2000E 00	61.2	61.1	61.0	60.9	60.9	60.9	60.9	60.8	60.7	60.7	60.7	60.7	60.7	60.7	60.7									
0.3000E 00	71.6	71.5	71.4	71.3	71.3	71.3	71.3	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2									
0.4000E 00	80.4	80.3	80.2	80.2	80.2	80.2	80.2	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1									
0.5000E 00	88.2	88.1	88.1	88.0	88.0	88.0	88.0	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9									
0.6000E 00	95.2	95.1	95.1	95.1	95.0	95.0	95.0	95.0	95.0	94.9	94.9	94.9	94.9	94.9	94.9									
0.7000E 00	104.6	104.5	104.5	104.5	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4									
0.8000E 00	107.6	107.5	107.4	107.4	107.4	107.4	107.4	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3									
0.9000E 00	113.1	113.0	112.9	112.9	112.9	112.9	112.9	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8									
0.1000E 01	118.2	118.1	118.1	118.1	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0									
0.1200E 01	123.0	123.0	122.9	122.9	122.9	122.9	122.9	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8									
0.1200E 01	127.5	127.5	127.5	127.5	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4									
0.1300E 01	131.9	131.8	131.8	131.8	131.8	131.8	131.8	131.7	131.7	131.7	131.7	131.7	131.7	131.7	131.7									
0.1400E 01	136.0	135.9	135.9	135.9	135.9	135.9	135.9	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8									
0.1500E 01	139.9	139.8	139.8	139.8	139.8	139.8	139.8	139.7	139.7	139.7	139.7	139.7	139.7	139.7	139.7									

D/LAM.0	M	-20. LOG /T/	VLAM.0/M**2D=	0.200000E 00	Y=	J.
0.1000E-04	50.00	0.0	0.0	0.0	0.0	0.0
0.2000E-04	60.00	0.1	0.1	0.1	0.1	0.1
0.4000E-04	70.00	0.4	0.4	0.4	0.4	0.4
0.6000E-04	80.00	0.7	0.7	0.7	0.7	0.7
0.8000E-04	90.00	1.0	1.0	1.0	1.0	1.0
0.1000E-03	100.00	1.3	1.3	1.3	1.3	1.3
0.2000E-03	110.00	1.6	1.6	1.6	1.6	1.6
0.4000E-03	120.00	2.0	2.0	2.0	2.0	2.0
0.6000E-03	130.00	2.4	2.4	2.4	2.4	2.4
0.8000E-03	140.00	2.8	2.8	2.8	2.8	2.8
0.1000E-02	150.00	3.2	3.2	3.2	3.2	3.2
0.2000E-02	160.00	3.6	3.6	3.6	3.6	3.6
0.4000E-02	170.00	4.0	4.0	4.0	4.0	4.0
0.6000E-02	180.00	4.4	4.4	4.4	4.4	4.4
0.8000E-02	190.00	4.8	4.8	4.8	4.8	4.8
0.1000E-01	200.00	5.2	5.2	5.2	5.2	5.2
0.2000E-01	210.00	5.6	5.6	5.6	5.6	5.6
0.4000E-01	220.00	6.0	6.0	6.0	6.0	6.0
0.6000E-01	230.00	6.4	6.4	6.4	6.4	6.4
0.8000E-01	240.00	6.8	6.8	6.8	6.8	6.8
0.1000E 00	250.00	7.2	7.2	7.2	7.2	7.2
0.2000E 00	260.00	7.6	7.6	7.6	7.6	7.6
0.4000E 00	270.00	8.0	8.0	8.0	8.0	8.0
0.6000E 00	280.00	8.4	8.4	8.4	8.4	8.4
0.8000E 00	290.00	8.8	8.8	8.8	8.8	8.8
0.1000E 01	300.00	9.2	9.2	9.2	9.2	9.2
0.2000E 01	310.00	9.6	9.6	9.6	9.6	9.6
0.4000E 01	320.00	10.0	10.0	10.0	10.0	10.0
0.6000E 01	330.00	10.4	10.4	10.4	10.4	10.4
0.8000E 01	340.00	10.8	10.8	10.8	10.8	10.8
0.1000E 02	350.00	11.2	11.2	11.2	11.2	11.2
0.2000E 02	360.00	11.6	11.6	11.6	11.6	11.6
0.4000E 02	370.00	12.0	12.0	12.0	12.0	12.0
0.6000E 02	380.00	12.4	12.4	12.4	12.4	12.4
0.8000E 02	390.00	12.8	12.8	12.8	12.8	12.8
0.1000E 03	400.00	13.2	13.2	13.2	13.2	13.2
0.2000E 03	410.00	13.6	13.6	13.6	13.6	13.6
0.4000E 03	420.00	14.0	14.0	14.0	14.0	14.0
0.6000E 03	430.00	14.4	14.4	14.4	14.4	14.4
0.8000E 03	440.00	14.8	14.8	14.8	14.8	14.8
0.1000E 04	450.00	15.2	15.2	15.2	15.2	15.2
0.2000E 04	460.00	15.6	15.6	15.6	15.6	15.6
0.4000E 04	470.00	16.0	16.0	16.0	16.0	16.0
0.6000E 04	480.00	16.4	16.4	16.4	16.4	16.4
0.8000E 04	490.00	16.8	16.8	16.8	16.8	16.8
0.1000E 05	500.00	17.2	17.2	17.2	17.2	17.2
0.2000E 05	510.00	17.6	17.6	17.6	17.6	17.6
0.4000E 05	520.00	18.0	18.0	18.0	18.0	18.0
0.6000E 05	530.00	18.4	18.4	18.4	18.4	18.4
0.8000E 05	540.00	18.8	18.8	18.8	18.8	18.8
0.1000E 06	550.00	19.2	19.2	19.2	19.2	19.2
0.2000E 06	560.00	19.6	19.6	19.6	19.6	19.6
0.4000E 06	570.00	20.0	20.0	20.0	20.0	20.0
0.6000E 06	580.00	20.4	20.4	20.4	20.4	20.4
0.8000E 06	590.00	20.8	20.8	20.8	20.8	20.8
0.1000E 07	600.00	21.2	21.2	21.2	21.2	21.2
0.2000E 07	610.00	21.6	21.6	21.6	21.6	21.6
0.4000E 07	620.00	22.0	22.0	22.0	22.0	22.0
0.6000E 07	630.00	22.4	22.4	22.4	22.4	22.4
0.8000E 07	640.00	22.8	22.8	22.8	22.8	22.8
0.1000E 08	650.00	23.2	23.2	23.2	23.2	23.2
0.2000E 08	660.00	23.6	23.6	23.6	23.6	23.6
0.4000E 08	670.00	24.0	24.0	24.0	24.0	24.0
0.6000E 08	680.00	24.4	24.4	24.4	24.4	24.4
0.8000E 08	690.00	24.8	24.8	24.8	24.8	24.8
0.1000E 09	700.00	25.2	25.2	25.2	25.2	25.2
0.2000E 09	710.00	25.6	25.6	25.6	25.6	25.6
0.4000E 09	720.00	26.0	26.0	26.0	26.0	26.0
0.6000E 09	730.00	26.4	26.4	26.4	26.4	26.4
0.8000E 09	740.00	26.8	26.8	26.8	26.8	26.8
0.1000E 10	750.00	27.2	27.2	27.2	27.2	27.2
0.2000E 10	760.00	27.6	27.6	27.6	27.6	27.6
0.4000E 10	770.00	28.0	28.0	28.0	28.0	28.0
0.6000E 10	780.00	28.4	28.4	28.4	28.4	28.4
0.8000E 10	790.00	28.8	28.8	28.8	28.8	28.8
0.1000E 11	800.00	29.2	29.2	29.2	29.2	29.2
0.2000E 11	810.00	29.6	29.6	29.6	29.6	29.6
0.4000E 11	820.00	30.0	30.0	30.0	30.0	30.0
0.6000E 11	830.00	30.4	30.4	30.4	30.4	30.4
0.8000E 11	840.00	30.8	30.8	30.8	30.8	30.8
0.1000E 12	850.00	31.2	31.2	31.2	31.2	31.2
0.2000E 12	860.00	31.6	31.6	31.6	31.6	31.6
0.4000E 12	870.00	32.0	32.0	32.0	32.0	32.0
0.6000E 12	880.00	32.4	32.4	32.4	32.4	32.4
0.8000E 12	890.00	32.8	32.8	32.8	32.8	32.8
0.1000E 13	900.00	33.2	33.2	33.2	33.2	33.2
0.2000E 13	910.00	33.6	33.6	33.6	33.6	33.6
0.4000E 13	920.00	34.0	34.0	34.0	34.0	34.0
0.6000E 13	930.00	34.4	34.4	34.4	34.4	34.4
0.8000E 13	940.00	34.8	34.8	34.8	34.8	34.8
0.1000E 14	950.00	35.2	35.2	35.2	35.2	35.2
0.2000E 14	960.00	35.6	35.6	35.6	35.6	35.6
0.4000E 14	970.00	36.0	36.0	36.0	36.0	36.0
0.6000E 14	980.00	36.4	36.4	36.4	36.4	36.4
0.8000E 14	990.00	36.8	36.8	36.8	36.8	36.8
0.1000E 15	1000.00	37.2	37.2	37.2	37.2	37.2



D/LAM.0	M	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04		0.0	0.1	0.1	0.2	0.3	0.5	4.6	9.9	14.1	16.8	18.5	19.6	20.2
0.2000E-04		0.1	0.3	0.5	0.8	1.2	1.7	9.1	14.8	18.0	19.6	20.4	20.7	20.9
0.4000E-04		0.5	0.9	1.6	2.5	3.5	4.6	14.1	18.5	20.2	20.7	21.0	21.1	21.1
0.6000E-04		1.0	1.9	3.0	4.3	5.7	7.1	16.5	19.8	20.7	21.0	21.1	21.1	21.2
0.8000E-04		1.7	2.9	4.4	6.0	7.6	9.1	18.0	20.6	21.0	21.1	21.2	21.2	21.2
0.1000E-03		2.4	4.0	5.8	7.5	9.2	10.7	18.9	20.6	21.0	21.1	21.2	21.2	21.2
0.2000E-03		5.9	8.0	10.6	12.5	14.2	15.5	20.5	21.1	21.2	21.2	21.2	21.2	21.2
0.4000E-03		10.7	13.4	15.4	17.0	18.1	19.0	21.0	21.2	21.2	21.2	21.2	21.2	21.2
0.6000E-03		13.7	16.0	17.7	18.8	19.6	20.1	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.8000E-03		15.6	17.6	18.9	19.7	20.2	20.6	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.1000E-02		16.9	18.6	19.6	20.2	20.6	20.8	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.2000E-02		19.8	20.5	20.6	21.0	21.1	21.1	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.4000E-02		21.0	21.1	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.6000E-02		21.3	21.3	21.3	21.3	21.3	21.3	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.8000E-02		21.4	21.4	21.4	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
0.1000E-01		21.5	21.4	21.4	21.4	21.4	21.4	21.3	21.3	21.3	21.3	21.3	21.3	21.3
0.2000E-01		21.8	21.8	21.7	21.7	21.7	21.7	21.6	21.6	21.6	21.6	21.6	21.6	21.6
0.4000E-01		22.9	22.9	22.9	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
0.6000E-01		24.4	24.2	24.3	24.3	24.3	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
0.8000E-01		25.9	25.8	25.8	25.8	25.8	25.8	25.7	25.7	25.7	25.7	25.7	25.7	25.7
0.1000E-00		27.4	27.3	27.3	27.3	27.3	27.3	27.3	27.2	27.2	27.2	27.2	27.2	27.2
0.2000E-00		31.9	33.9	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
0.4000E-00		39.1	39.1	39.1	39.1	39.1	39.1	39.0	39.0	39.0	39.0	39.0	39.0	39.0
0.6000E-00		43.5	43.5	43.5	43.5	43.5	43.5	43.4	43.4	43.4	43.4	43.4	43.4	43.4
0.8000E-00		47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
0.1000E-00		50.6	50.6	50.6	50.6	50.6	50.6	50.5	50.5	50.5	50.5	50.5	50.5	50.5
0.2000E-00		53.6	53.6	53.6	53.6	53.6	53.6	53.5	53.5	53.5	53.5	53.5	53.5	53.5
0.4000E-00		56.3	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
0.6000E-00		58.7	58.6	58.6	58.6	58.6	58.6	58.5	58.5	58.5	58.5	58.5	58.5	58.5
0.8000E-00		60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
0.1000E-01		62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
0.2000E-01		64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
0.4000E-01		66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
0.6000E-01		67.8	67.8	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
0.8000E-01		69.2	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1

Y= 3.

VLAN.0/M\*\*2D\* 0.300000E 00

-20. LOG /T/



D/LAM.0	M	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.0	0.1	0.1	0.2	0.4	0.5	4.8	9.9	13.3	15.2	16.1	16.6	16.9
0.2000E-04	0.1	0.1	0.3	0.5	0.8	1.3	1.8	9.1	13.9	15.8	16.6	16.9	17.1	17.1
0.4000E-04	0.5	0.5	1.0	1.7	2.6	3.7	4.8	13.3	16.1	16.9	17.2	17.2	17.2	17.2
0.6000E-04	1.1	2.0	3.2	4.5	5.9	7.7	9.1	15.9	16.7	17.1	17.2	17.2	17.2	17.2
0.8000E-04	1.8	3.1	4.7	6.2	7.7	9.2	10.6	16.3	17.0	17.2	17.2	17.2	17.2	17.2
0.1000E-03	2.6	4.2	6.0	7.7	9.2	10.6	12.1	17.0	17.2	17.2	17.2	17.2	17.2	17.2
0.2000E-03	6.1	8.4	10.5	12.1	13.4	14.3	15.2	16.3	17.2	17.2	17.2	17.2	17.2	17.2
0.4000E-03	10.6	12.8	14.3	15.2	16.3	16.6	16.8	17.2	17.2	17.2	17.2	17.2	17.2	17.2
0.6000E-03	13.0	14.7	15.7	16.3	16.9	17.0	17.1	17.2	17.2	17.2	17.2	17.2	17.2	17.2
0.8000E-03	14.4	15.6	16.3	16.7	16.9	17.0	17.1	17.2	17.2	17.2	17.2	17.2	17.2	17.2
0.1000E-02	15.2	16.2	16.6	16.9	17.2	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.2000E-02	16.7	17.0	17.1	17.2	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.4000E-02	17.2	17.2	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.6000E-02	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.8000E-02	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.1000E-01	17.4	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.2000E-01	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.4	17.4	17.4	17.4	17.4	17.4	17.4
0.4000E-01	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
0.6000E-01	18.8	18.8	18.8	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
0.8000E-01	19.7	19.7	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
0.1000E 00	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
0.2000E 00	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
0.3000E 00	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
0.4000E 00	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
0.5000E 00	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
0.6000E 00	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
0.7000E 00	38.4	38.4	38.4	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
0.8000E 00	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
0.9000E 00	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
0.1000E 01	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
0.1100E 01	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
0.1200E 01	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
0.1300E 01	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
0.1400E 01	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
0.1500E 01	47.0	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9

Y= 3.

VLAN.0/M\*\*2D= 0.500000E 00

-20. LOG /T/





N/LAM.0	M	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.2	0.3	0.4	0.6	0.6	5.0	9.5	11.9	12.9	13.4	13.6	13.7
0.2000E-04	0.2	0.3	0.6	0.9	1.4	2.0	2.0	8.9	12.2	13.3	13.5	13.7	13.8	13.8
0.4000E-04	0.6	1.2	1.9	2.9	3.9	5.0	5.0	11.9	13.4	13.7	13.8	13.8	13.8	13.8
0.6000E-04	1.2	2.2	3.5	4.6	6.1	7.3	7.3	12.9	13.6	13.8	13.8	13.8	13.8	13.8
0.8000E-04	2.0	3.4	4.9	6.6	7.7	8.9	8.9	13.3	13.7	13.8	13.8	13.8	13.8	13.8
0.1000E-03	2.8	4.4	6.1	7.7	9.0	10.0	10.0	13.5	13.8	13.8	13.8	13.8	13.8	13.9
0.2000E-03	6.2	8.3	9.9	11.1	11.9	12.5	12.5	13.8	13.8	13.8	13.8	13.9	13.9	13.9
0.4000E-03	10.0	11.6	12.5	13.0	13.3	13.5	13.5	13.8	13.8	13.8	13.9	13.9	13.9	13.9
0.6000E-03	11.7	12.7	13.2	13.4	13.6	13.7	13.7	13.8	13.9	13.9	13.9	13.9	13.9	13.9
0.8000E-03	12.5	13.2	13.5	13.6	13.7	13.8	13.8	13.8	13.9	13.9	13.9	13.9	13.9	13.9
0.1000E-02	13.0	13.4	13.6	13.7	13.8	13.8	13.8	13.8	13.9	13.9	13.9	13.9	13.9	13.9
0.2000E-02	13.6	13.8	13.8	13.8	13.8	13.8	13.8	13.9	13.9	13.9	13.9	13.9	13.9	13.9
0.4000E-02	13.8	13.8	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
0.6000E-02	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
0.8000E-02	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
0.1000E-01	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
0.2000E-01	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
0.4000E-01	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
0.6000E-01	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
0.8000E-01	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
0.1000E 00	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
0.2000E 00	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
0.3000E 00	21.3	21.3	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.4000E 00	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
0.5000E 00	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
0.6000E 00	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
0.7000E 00	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
0.8000E 00	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
0.9000E 00	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
0.1000E 01	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
0.1100E 01	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
0.1200E 01	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
0.1300E 01	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
0.1400E 01	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
0.1500E 01	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6

D/LAM.0	M	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.1	0.3	0.4	0.6	0.7	0.8	12.9
0.2000E-04	0.0	0.0	0.3	0.6	1.0	1.5	2.0	3.8	11.7	12.4	12.8	12.9	13.0	13.0
0.4000E-04	0.6	0.6	1.2	2.0	2.9	4.0	5.1	11.4	12.7	12.9	13.0	13.0	13.0	13.0
0.6000E-04	1.3	2.3	3.5	4.8	6.1	7.7	8.8	12.3	12.9	13.0	13.0	13.0	13.0	13.0
0.8000E-04	2.0	3.4	4.9	6.4	7.6	8.8	9.8	12.6	12.9	13.0	13.0	13.0	13.0	13.0
0.1000E-03	2.8	4.5	6.2	7.6	8.8	9.8	11.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.2000E-03	6.3	8.2	9.7	10.8	11.5	11.9	12.7	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.4000E-03	9.8	11.2	11.9	12.3	12.6	12.7	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.6000E-03	11.3	12.1	12.5	12.7	12.9	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.8000E-03	12.0	12.5	12.7	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.1000E-02	12.3	12.7	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.2000E-02	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.4000E-02	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.6000E-02	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
0.8000E-02	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
0.1000E-01	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
0.2000E-01	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
0.4000E-01	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
0.6000E-01	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
0.8000E-01	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
0.1000E 00	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
0.2000E 00	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.3000E 00	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
0.4000E 00	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
0.5000E 00	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
0.6000E 00	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
0.7000E 00	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
0.8000E 00	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
0.9000E 00	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
0.1000E 01	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
0.1100E 01	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
0.1200E 01	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
0.1300E 01	28.0	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
0.1400E 01	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
0.1500E 01	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4

Y= 3.

VLAM.0/M\*\*2J= 0.900000E 00

-20. LOG /T/

D/LAM.0	W	50.00	60.00	70.00	-20. LOG /T/	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.0	0.1	0.2	0.3	0.4	0.6	5.1	9.2	11.0	11.7	12.0	12.2	12.2
0.2000E-04	0.2	0.3	0.6	0.6	1.0	1.5	2.1	8.6	11.3	12.0	12.2	12.3	12.3	12.3
0.4000E-04	0.6	1.2	2.0	3.0	3.0	4.0	5.1	11.0	12.0	12.3	12.3	12.3	12.3	12.3
0.6000E-04	1.3	2.4	3.6	4.9	6.4	7.6	7.2	11.7	12.2	12.3	12.3	12.3	12.3	12.3
0.8000E-04	2.1	3.5	5.0	6.4	7.6	8.7	8.6	12.0	12.3	12.3	12.3	12.3	12.3	12.3
0.1000E-03	2.9	4.6	6.2	7.6	10.4	11.0	9.6	12.1	12.3	12.3	12.3	12.3	12.3	12.3
0.2000E-03	6.3	8.1	9.5	10.4	11.8	12.0	11.4	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.4000E-03	9.6	10.8	11.4	11.8	12.1	12.2	12.1	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.6000E-03	10.9	11.6	11.9	12.1	12.2	12.3	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.8000E-03	11.5	11.9	12.1	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.1000E-02	11.8	12.1	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.2000E-02	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.4000E-02	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.6000E-02	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
0.8000E-02	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
0.1000E-01	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
0.2000E-01	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
0.4000E-01	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
0.6000E-01	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
0.8000E-01	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
0.1000E-00	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
0.2000E-00	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
0.3000E-00	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
0.4000E-00	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
0.5000E-00	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.6000E-00	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
0.7000E-00	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
0.8000E-00	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
0.9000E-00	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
0.1000E-01	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
0.1100E-01	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
0.1200E-01	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
0.1300E-01	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
0.1400E-01	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
0.1500E-01	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

Y= 3.

VLAM.0/W\*\*2D= 0.100000E 01

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DATE 03/15/66 21.770

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13. ABSTRACT The reentry signal attenuation calculations presented in this volume are a part of the lifting reentry communication system study described in Vols. I and II. Extensive plane wave attenuation tables are given for the following plasma conditions: $0.8 \leq \omega_p / \omega \leq 860$ $10^{-4} \leq d / \lambda_0 \leq 3.5$ $10^{-4} \leq 2\pi c v / \omega_p^2 d \leq 1.0$ A brief review of the plane wave analysis is also included. Plasma antenna effects and the effects of inhomogeneities in the plasma sheath are discussed.		

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14.

KEY WORDS

Communication System  
Reentry Communications  
Lifting Reentry  
Antenna Window  
Aerodynamics  
RF Attenuation  
RF Breakdown  
Aerodynamic Shaping  
Fluid Injection  
Magnetic Window  
Electrophilic Seeding  
Millimeter Waves  
Optical Communications Systems  
High-Frequency Communications  
Communication Blackout

Abstract (Continued)

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